

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4414	34782	A	4455	3	1045	DFTSENFSAAWYLIENHSNTSF EQLKMAVTNLKRQANKKSEGS LAYVKGGLSTFLEAQDALSAIH QKLEADGTEKVEGSMTQKLEN VLNRSNTADTLFQ/EKVLGRK DKADSTARNALNVLI\QRFKFLFN LPLNIERNIQKGDYDVVINDYE K\AKSLFG\KTEVQVF\KKYYAE VIEPRVEALRELL\DKLLETPTST LHDQKRYIRYLSDLHASGDPA WQCIGAQHKWILQLMHSCKEG YVKDLKGKDFSSNVFQFSGSAL RRVPDTRVRVLDQSQFSRSALRSV PDTVQVLDQSQFSGSALRRVPDT VRVLDGQFSRSALRSVPDTRVRV LDKCHCSPAKVVMNAVITFTG
4415	34783	A	4456	1	440	MQRNLARAFSPGIKKIKMMCL GNSEKDWPKFRGVGEDAGLLA ARECGALLVIRHLINAVRAIVP NKSNNIILVLQHFDNCVDK\TV QAFMEGSASEVLKEWTVTGKK KLLQGEELARLPFITGGSGSC YSSSTLAVEEECRVLA
4416	34784	A	4457	1	276	MEDEMEGLTEAGFRRWVTNS AELKEHVLTOCKEAKNLDKRL EELLSRITSLERDISDQME/RELC EAYTSINSQINQAEERISEFEDH LAEI
4417	34785	A	4458	3	361	EMVHRKKKAVHRTATADDDK LQFSLKKLEVNNVSGIEEVNMF TNQGTVIHFNAEMPANSFTITG HAETKQLMEMLPSILNQLGAH CLTSRLRLAEALPKQSVNGKAP LATGEDDDEVPA
4418	34786	A	4459	1	475	
4419	34787	A	4460	57	820	EDGSGGGKFPEGARQGGTGQR RRRKAMRRTGAPAQADSRGRG RARGGCPGGEATLSQPPRGGT RGQEPQMKETIMNQEKTRHTC RAQ\VRIGGKGTARRKKKVH RGAAS/ADDKKLQFSLKKILGV NNISGIEEVNMFTNMQGTSGST FNNP*KFQGISWPANTFHHLQG HAEDKGS*QEMLAQHLKPSLG ADSLTSLRLAEALPKQSVDGK APLATGEDDDDEV\PDVLENF* *RLPRNEANLNLSQLLIKIP
4420	34788	A	4461	1	1527	

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4421	34789	A	4462	8	327	LIWQLTFTKTIKS/CEEYGKIVST KAILDKNTNQCKGMCKGIRTL KSCLCYLINGSSIVEVQKRLAY AGTLEPSLVHQVYSELSYYKLP GTQVVRIIAEVLRMQDSSE
4422	34790	A	4463	2	573	WMEGREKWRGRRKDGRKEGR KEGRKERRREREKGRERK/GKE RKGKERKGRKGRKGRER KGTEGKGTEGKGRKGRKGRK GKERKGRKGRKGRKGRKGRK KEQKGRKGRKGRKGRKGRK ERKGRKGRKGRKGRKGRKGRK GKGRERKGRKGRKGRKGRKGRK KEGRKEGKKFSNNGMVEEMQ
4423	34791	B	4464	1	1344	
4424	34792	A	4465	3	373	
4425	34793	A	4466	1	3864	MQWEEAEKDPSGSCVFQRPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNNPSLTSIYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGTLTSTRTNPLKKEKSPEDL KQIKIDLGKFSDN
4426	34794	A	4467	3	415	
4427	34795	A	4468	396	676	LCFPYAERPDLQFLC*DLCARSP YLLQAQKYLQEF*AIPHLDQQT EPPDPSVSFYLLDCTLNCTAQH KTC*KKSIGL*EQNQQLSSIPY SHT
4428	34796	A	4469	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLLSLSLRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVA AGLVSEAVKIIQG/LTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGPVLRRLRTCATLN PATFLPDNEEKIEHNCQQVIAQTYA
4429	34797	A	4470	918	1939	

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4430	34798	A	4471	3	2693	PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILVKAGAI HLNIGEGTPICRLLFEEGISPEV WATEGQYGQAKNAHFVQVKL KDSTSFPYQRQYPLRPEAQQR LKIVKDLKAQGLVKPYSSPCNT PILGVQKPKRQWRLVQDLRIIN EAVFPLYPAIPSPYTLLSQIPEEA EWFTVLDLKDAFFCIPVHPDSQ FLFAFEDPSNP'TSQTWTVLPLQ GFRDSPHLFGQALAQDLSQFSY LDTPVLQCMDLLLAARSETLC HQATQALLNFLTTCGYKVSKEP KAQLCSQQVKCLGLKLSKVTR ALSEERIQPILAYPYPKTLKQLR GFLGITGFCRIWIPRYGKIARPL YTLIKETQKANTHLVRWTPEAE AAFHALKKALMQAPVLSLLTG QDFSSYVTKNKQTKKKK\T*IA LRVLALV*GTS LQPVAYLSKKT DVVAKGWPHCLWVMAAIAVLI SKAVKMIQ*RDLTVWTS HDVN GILTAKGDLWLSDNHLLKYQA LLLEGPMLRLCTCAALNLDFTL PHNEEKIEHNCQQVIAQTYATR GDHLEVPLTDPNPPLYTDGRSF VEKGLQKVGYAVVSDNGILES NPLTPGTS AQLAELIALTWALE LGEGKRVNIYTDSKYAYLV LH AHAVIWREREF LTSEGTPIKHQ
4431	34799	C	4472	11	1639	
4432	34800	A	4473	95	2539	
4433	34801	A	4474	345	768	PRGARSTRCLPVERR\CDGLQD CGDGSDEAGCPDLACGRRLGSF YGSFASPD LFGAARGPSDIHCT WLVD TQDSRRVLLQLELR LGY DDYVQVYEG LGERDRLLQTL SYRSNHRPVSLEAAQGR LTV A YHARARSHPLMNE
4434	34802	A	4475	47	563	RLRF AVFTGAFHALSFLLSFVV LCCTYLKGLKVARFHCKRIDV/ MHHADARAAGGPAPQCAGTLS VEEQRRRQRATKKISTFIGTFL VCFAPYVITRLVELFSTVPIGSH WGVLSKCLAYS KAASDPFVYS LLRHQYRKSCKEILNRL LHRRSI HSSGLTGDSHSQNILPVSE

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4435	34803	A	4476	1	332	ERGRQEMSAKLRPPAEPPCVPA RISP*RPS*RQ*MERRCPPWRCS PMPC/CFFREHALQVRCGPTSA DCGRDPLFSPHPKPLPHPVPDIG WVATAGAQRSSSPVPSSLFVW
4436	34804	A	4477	297	943	TGSWGGGGADQLRPALTALM PPDNRFGENTPAAPANGHCAP EPDITLVQDHSELPIGAAATMA HEIGHSLGLSHDPDGCCVEAAA ESGGCVMAAAT/GVRGHPFPRV FS/SCSRRQLRAFFRKGGGACLS NAPD/TRTPGAAALCGNGFVEA GEECYCVSIGQECRDLCCFAHN CSLRPGAQCAHGDCCVRCLVR/ CMEGSGSHQLPRLVPGGDSAEI LM
4437	34805	A	4478	1	836	MGPLTFRDVKIEFSLEEWQCLD TAPGNLYRDVMLENYRNLVFL VMCSHFAQDVWPEHSIKDSFQ KVILRTYGYGHENLQLRKDH KSVDACKVYKGGYNGLNQCLT TTDSKIFQCDKYVKVFHKFPNV NRNKIRHTGKKPFCKNRGKSF CMLSQLTQHKKIHTREYSYKCE ECGKAFNWSSTLTKHKIHTGE KPYKCEECGKAFNRSSNLTKH KIIHTGEKPYKCEECGKAFNRS STLTKHKRIHTEEKPYKCEECG KAFNQFSILNKHKRIHMGR
4438	34806	A	4479	1	588	MLGKVQQQEQTIAKDLVVTKY KMCGGT/DIANRVLRSLVEASS S\GGQDYILKEGDLVKIDLG VH VDGFIANVTHTFVVDVAQGTQ VTGRKGDVIKAAQLCVEAALC LVKPGNQNIQVREAWSKVALS FNCMPIEGMLSHQLKQHVIDGE KNIIQNPTDQQKKDHEKAEFEV HEVYAADVLVSSGEGKAKDAG
4439	34807	A	4480	85	561	LSHCLPLQTTEVGGFGNLLGY WIACSIGCVLSTGMLSHQLKQH VIDGEKTHQNPTDQQKKDHEK AEFEVHEVYAVDVLVSSGEGK VRRVPELAKRGD*ECSPDQMLL KLLFQAKDAGQRTTIYKRDPSK QYGLKMKTSRAFFSEVERRFD AMPFTLRY

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4440	34808	A	4481	1	1408	GTSAPQPARSQLLALACLPAPL LARAFAARPLLEDGRGSDHSLW LGRETEAAAAQGKRGCSGGSR KMSGEDQEQEQTIVD/DSLVT KYKMGDIANRVLRLSLVEASS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISVNNC VCHFSP/L*KSDQDYILKEGDLV KIDLGVHVVDGFIANVAHTFVV DVAQGTQVTGRK\ADVIKAAH L\CAEAA\RLRVKPGNQNTQVT EAWNKVAHSF\NCTPI\EGMLSH SLKQHVIDGEKP*FQNPTDKQK\ RAHEKADFEVH\DVYAVEGLV KPQERARPKDAGQRTTIYKRDP SKQYGLKMKTSRAFFSEVERRF DAMPFTLRAFEDEKKARMGV\ VECAKHEL/VWQPFNVLYSGRE GDFVCPVLNFTVL\LMPNGPML ITSGPFEPDLYKSQMEVQ\DAEL KALLQSSASRKTQKKKKKKAS KTAENATSGETLEENEAGD
4441	34809	A	4482	3	190	
4442	34810	B	4483	1	588	
4443	34811	A	4484	1	1312	MSSKGSVVLAYSGGLDTSCILV WLKEQGYDVIA\LANIGQKED FEEARKKALKLGAKKVFIEDVS REFVEEFIWPAIQSSALYEDRYL LGTTFFARPCIAARKQVEIAQREG AKYVSHGATGKGNDQVRFELS CYSLAP\QIKVIAPWRMPEFYNR FKGRNDLMEYAK\QHGIPVTP KNPWMDENLMHISYEAGILE NPKNQAPPGLYTKTQDPAKAP NTPDILEIEFKKGVPVEGGPTF KDG\TTHQTFL\ELF\MYLNEVA GKHGVGPYLTSWENRFHWELK SRGILRRPQAG\TILYHAHLDE AFTMGGDRAQIPNQGLGFVE LGVYRFSGTAPECELVGPCLRQ SPQERVEGKSAGVPSLKGPRCT SLGPEVPHCSLYNE\ELVKHGT CQGDYEPN*LPPGFIQTSISLKA EGNYHRLPRAKVTAQIRPRVQ
4444	34812	B	4485	47	482	

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4445	34813	A	4486	2328	3435	KTTTLEDNLGNTIQDIGPGKDF MMKIPKANATKIKIDEWDLIKL KSFCTAKATTKRVNKHDESLRS HYE*WGMLTDCVVMRDPNTK RSRGCGFVTYATVEEVDAATN ARPHKVDGKVVEPKRTVSRED SQRPGAHLTVKKIFVGGIKEDT GGFAFVTFDDHDSVDKIVIPKY HTVNGHNCEVRKALSKQEMAS ASSSQRGRSGRGGGFGGNENFG CGGNFSGHGGFGGSHDGGGYG GSGDGYNGFGNDGGYPGGGPG YSGGSRGYGSGGQCGNQDSG YGRSGSYDSCNKGGRGFGSG SGSNFGGGGSYNDFGNYNQY SNFGPMKGGNF/GGRRSGP*GD GGQYFAKPPNHSYGGSSSSSS
4446	34814	A	4487	1	762	
4447	34815	A	4488	3	333	
4448	34816	A	4489	1	1676	MRDPNTKRSRGFGFVTYATVE EVDAAMNTTPHKVDGRVVEPK RAVSREDSQRPGAHLTVKKIFV GGIKEDTEEHHLRDYFEQYGKI EVIEIMTDRGSGKKRGFAFVTF DDHDSVDKIVIQKYHTVKGHN CEVRKALPKQEMASASSSQRG RRGSGNFGGGRGDGFGGNDNF GRGNGFSGRGGFGGSCGGGGY GSGDGYNGFGNDGSNF*G/GG SYNDSGNYNQSSKFEPMKGG NFGGRSSGPYGGGGQYFAKPQ NQAARCVAARWLFRTEARLVF LQKFPPWAVVEVTVIVAAPA AATATTRDGGGCSRNCNIPV PELLGCPNRRGPPGVREKQQQ TNSKSTRRQEITKTIAELKEIETR KTLQKINESRSWFYEKINKVDR LLDRLIKKKREKSQIDAIKNDIG DIVTDPAEIQTTIKEYYKRLYAN ELENLEEMDKFLATYSLHSLNQ EEVESLNKPVTSSEVEAVTNSL PTKKSPGPDGFTVLLEVLAPAIR QEKEIKHIPIGREEVKLSLFADD VIVYLENPIVSAQNLLKLISNFS

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4449	34817	A	4490	1	1445	MKCLKFINHKEILEASERKQAE SLDFPFKKLRWHLCEGWIEEER DESRKSETIFKDLFKVPVLKETI YYKFYGPVYQIETVYFMALSP PKSKQFDKTKQNNNNKKTHQF VIVFFKTDEHLSARGRRRSIVK VSLLPVAVIGLKSFLKKPDQLR KLFVIGGLSFETTDESLRSHFEQ WGTLTDCVVMRDPNTRSRGF GFVTYATVEEVDAAMNARPH KVD\GRVV\EPKRAVSREDSQRP GAHI\TLVKKIFVGGIKEDTEEH HLRDDYFEEIILNSMEKIEV\IEI MT\DRGSGGKKRGFAFVTFDDH DSVDKIV\QKYHT/VGNHNC V\RKALSKQEDG*VLHPAQRG\ RSGSGKLLVVGRGRWFSVGM NFG\RGGNFWSVVAFGGT\R GGYGWQWGMAYNGFGNDG\ SNFGGG\SYNDFG\WYNNQSS NFGPMKGGNFG\GRSSGPYG\ GGQYFAKPR\NQGGYGGSSSS\ TVLNSMSVILAISTLLKIITGELL QSGDGLLWNLVIGIRGIDGLSP KVRKVLQLLRQIFN/GTFVK LIKVTVNMLRTVEPYIAWGYPN LKSVNELIYKHGYGKISKRIA LTDNVLIARSLGKYGIICMEDLI YEIYTVGKRFKEANNFLWPFKL
4450	34818	A	4491	134	612	
4451	34819	A	4492	1	1983	
4452	34820	A	4493	1	1527	
4453	34821	B	4494	1	2211	
4454	34822	A	4495	1	2478	
4455	34823	A	4496	2	1544	
4456	34824	B	4497	1	2151	
4457	34825	A	4498	1	744	
4458	34826	B	4499	1	2172	

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4459	34827	A	4500	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLKAGVPLRCCEGDKD AGHPLETQTALCERGRGARS LV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGDLSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANSLDFPPASLL CLICQEQGVNGESCSVPGMYH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDA EKAFDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPM TFF TELEKTTLKFIWYQKRARI TKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETTIRVNRQPT
4460	34828	B	4501	1	1785	
4461	34829	A	4502	1	1415	
4462	34830	B	4503	1	3262	
4463	34831	A	4504	1	278	

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4464	34832	A	4505	3	2528	ENKDTTYQNLWDAFKAIVCRG KFIALNAHKRKQEKSKIDTLTS QLKELEKQEQTSHKASRRQEIT KIRAELEKIDTQKTLQKINESRS WFFERINKIDRPLARLIKKKREK NQTDTIKNCKGDITDPTETIQT IREYYKHLIYANKLENLEEMDK FLNTYTLPRLNQEEVESLNRPI GAEIVAISSLPT/K/KSPGPDGFT AEFYQRYKEE/LEKEGILPNSFY EASIIIPKPGRDATKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRTKDKNHMIIISIDAE KAFDKIQQRFLKTLNKLIGIDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLAIRAIQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSGYKINVQKS QAFLYTNNTQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKDDTNKWKNIPCS WVGRINIVKMAILPKLPMTFFT ELEK\TTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEIMPPINYLIQDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGL GKDFMSKTPKAMATKAKIDK
4465	34833	B	4506	1	5401	
4466	34834	A	4507	1	5271	MNIDAKILNKILPNQIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMIIILIDAEK SFDKIQQPFMLKTLNKLIGIDGT YFKIIRAIYDKPTANIILNGQKLE VFTLKTGTRQGCPLSPLLFNIVL EVLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKQISNFSKISGYKINVQKSQA FLYTNNRQTESQIMSEIPFTIAL KRIKYLGIQLTRDVKDLFKENY
4467	34835	B	4508	924	3423	
4468	34836	A	4509	525	673	RDSWGTCPVSGAGKVDWPPSS *HHR*HQQWCCGMPHQLSTKE NISIKDHLTKEKRKGGAV*RII

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4469	34837	A	4510	25	1766	GTCQFAAMNVVFAVKQYISKM IEDSGPGMKVLLMDKETTIVS MVYTQSEILQKEVYLFERIDSQ NREIMKHLKAICFLRPTKENVD YIIQELRRPKYTIYFIYFSNVIK SDVEVIGLKLIEQEVVAEVQEF YGDYIAVNPFLFSLNIGCCQG RNWDPAQLSRTTQGLTALLSL KKCPMIRYQLSSEAAKRLAECV KQVITKEYELFEFRTEVPPLLL ILDRLLDDAITPLLNQWTYQAM VHELLGINNNRIDLSRVPGISKD LREVVLSAENDEFYANNMYLN FAEIGSNIKLMEDFQKKPKPE QQKLESIGSMKA\FVENYPQFK KMSGTVSKHVTVVGELSRLVS ERNLLEVSEVEQELACQNDHSS ALQNIKRLQNPKVTEFDAARL VMMLYALHYERHSSNSLPGLM MDLRNKGVSSEKYRKLVS AVVE YGGKRVRGSDLFSPKDAVAITK QFLKGLKGVGNVYTQLQPFL HETLDHLIKGRLENLYPYLGP STLRDRPQDIIVFVIGGATYEEA LTVYNLNRTPGVRIVLGGTTV HNTKSFLEEVLASGLHSRSKES
4470	34838	A	4511	1	1335	MAPVTMMGYRSGKMGLADV QLQVGPPGPWLHLVVIAPVPEC ITGIGIFSSWGSPDVGPLLYDIR AIMWGSLAPAENTWILGNNHR RFLAQLKPRVIMQDFSNIKS DVKSLAEADEQEVVAEVQQVI TKEYELFEFRTEVPPLLLILDR CDDAITPLLNQWTYQAMVHEL LGINNNRIDLSRVPGISKDLREV VSSAEIDEFYANNMYLNFAEIG SNIKLMEDFQKKPKPEQQKL ESIADMKA\FVENYPQFKMSG TVSK\HVTVVG\ELSRLVSE LAGRFSEVEARNWAC\QNDHS SALQNIKRLQNPKVTEFDAAR LVML\YA\LHYERHSSNSLPGL MMDLRN\KGVFWRKYSKARVL AVVEYGGKRVRGSDLFSPKDA VAITKQFLKGLKQEI VNCVLA AANVYIKQLPLSIQPSASLNGCI SLEKKPLVSTQRN
4471	34839	A	4512	1	816	
4472	34840	A	4513	26	257	
4473	34841	A	4514	56	236	

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4474	34842	A	4515	170	373	HSPRGSTASF/CEVSETKNPPIPD TPATREAEGLSRLAVYSTRDS PCVACSGSYTQAQGSGLGRKFQ DP
4475	34843	A	4516	262	358	
4476	34844	A	4517	2298	2556	NHKNPRRKPRQYHSGHRHGQG LHD*NTKSNGTKSNGNKSQN* Q\WDLINLKSFCTAKETTIRVNR QPTWEKIFTIYPSDKGLISRI
4477	34845	A	4518	801	944	DQEPNRSRHILATQMGPSPIKQ SNPGV**KECGFSCSPRVWRYL VS
4478	34846	B	4519	85	660	
4479	34847	A	4520	693	827	
4480	34848	A	4521	272	339	
4481	34849	C	4522	532	2754	
4482	34850	B	4523	1	519	
4483	34851	B	4524	266	935	
4484	34852	A	4525	1	1584	
4485	34853	A	4526	1	723	GALPNGDRGRRKSRFALYKRP KANGVKPSTVHVISTPQASKAI SCKGQHSISYTLRNQTVVVEY THDKDMDMFQVGRSTESPIDFV VTDTISGSQNTDEAQITQSTISR FACRIVCDRNEPYTARIFAAGF DSSKNIFLGEKAAKWKNPDGH MDGLTTNGVLVMHPRGGFTEE SQPGVWREISVCGDVYTLRETR SAQQRGKLG\QTGDMAENT/T VHALPSNCMVWRRSQTRQQIS
4486	34854	A	4527	1	335	
4487	34855	A	4528	328	871	DCGGGRARTAFAGAARAADN KKCAGARRALGRARGCSATAR PRRRRRRPRGLAPPRPARPPPG GMSYKPNLAAHMPAAALNAA GSVHSPSTSMATSSQYRQLSD YGPPSLGYTQGTGNSQVPQSKY AELLAIIIEELGKEIRPTYAGSKSS MERL\KRGIIHARGLVRECLAE TERNARS
4488	34856	A	4529	1	653	MAGPAESSPQGAHPNSPFALQH HSSLTVKPLHRQNVIQHQQVAG QENRRGHQAGSSTSPQPLEALK RPNLRAPFHSQSRRILIPPAGNP TPGAAAPADPSTQRRDRWGCA LPMPRVAAGSAHHQQAGPTAA AQHRTPVALFSPPLSLVYGQQQ RKESETPTVPTPPARARGWTET GVEHVPAYNRTRAPEKCDI/SV PSPHSPDAETSHPRHISPCPG

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4489	34857	A	4530	3	432	NSRVDDFVAAQDAKGKKVAP APAVVKKQEAKKVVNPLFEKR PKNFGIGQ\QRL LARA EKKAAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVVIAHDVDPIELV VFLPALCRKMGPVYCIK GKAR LGRLVHRKTCTTVAFT
4490	34858	A	4531	1	2073	MKPCAHSWNAELSRNIIRHSFN LVMVAASQVAVSQLLGSYEILL LVSIELMFCFGLGYFFIPMQEW PNTYGERVFVDVLESSVFKWNH KCLHKTEAERDYTEKKRLKLCG HKPGNAVGGQKLEEARNRFFT RAPGGSAA\PTLRFQPSD\DFR LLASRTILTFETKNPSELAERLR SVCNGQSNAYARLLEYRLNAL RGLWNAQRQLALEEQHERESS GDEETLALLKRQGLLQQPEQAP FTSRMGLLLVFLIQSQSRTDPS LCNITAEVLLNCLRDCQPLSLT KEPADCLNGIETLLCSWLEETS DTGRHIPHKQKENAAAA\VAL ACARGFVYCRNEELEPGWVAF GSGSLLHRPVSFDNKP\HSLFQVI DQNTLQVCQVVPMPANHLPIG STMSTVHLSSDGTIFYWIWSPA SLNEKTPKGHSVFMDIFELVTL KGKKAKGKKVAPAPAVVKKQ EAKKVVNSLFEKR\DIQPKRELT YFVKW/PRYVRLQQQRAILYKQ LKVPPAINQFTQALNCQTVTQL LKL AHKYPETKQEKKQRLLA QAEKKAAGKGGVPTKRPPALR AGVNTITTLVENKKAQLVVIAH DVDSIELVVFLPALCCKMGVPY CIK GKARLGRLVHRKTCTTVA FTQVNLEDKGALAKLVEGIRTN DNDRYDEICCHWGGNILGPKS VACIAKLEKAKAKELATKLG
4491	34859	A	4532	1	2565	
4492	34860	A	4533	1	644	MPKGKKAKEKKVAPAPAVVK KQEAKKVVNPLFEKRPKNFGT GQDIQPKRDLTHFVKWPCYIRL QQRTILYKWLKVPEINQFTQ APDSQTATLLKL AH/KYRPET NQEKKQRL LARAKKAAAGKG DIP\TKSPVLRAGVNTITTLVE NKK AQLVVIAHDVDPIKLVVFL PVLCHK/MGPVYCIK GKARLG HLVHRKTCTTVTFTQVNSEDK

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4493	34861	A	4534	1	931	KSIQKGLKMCLSSSLPPSKMP KGKKAKGKKVAPAPAVVKKQ EAKKVVNPLFEKRP\KNFGIGQ DIQP\KRDFTRFVKWPRLLSGC MR\KRAILYKAG*KLPPA\INQF HPGPWDPANKLLQLL*AWAHK \YRP\ETKAKRKKQRL\LARA\IE KKAAGKGDVPNERDPPV\LRA\ GVNTVTHLWWRNKKAPAWVV IATRRWIPFELVVFLPAL\CREK WGSPYCIHKGARLGR\LVHRR PCT\TVGFHTR*NSDKRRLA* AGLEAIRTOFTIDQIRWRSGRH\ WG\GNVLG\PKSVARIRQASKR QRLKELATKLG
4494	34862	A	4535	3	227	
4495	34863	A	4536	1	338	
4496	34864	A	4537	1	352	
4497	34865	A	4538	2	368	
4498	34866	A	4539	3	468	
4499	34867	A	4540	2	790	PRGRNRRRKTQFERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PDVVSLLAQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELDLCSLPRD\TTLVHYI DDIMLIGSSVQEVENKLDLLVK DKLLHLAPPTTKEEVQHMVGL FGFWRQH\PHLGVLHQPIYRVI RCAA/SFEWGPEQEKAQQVQ AAVGGKQSENNLGHQSPGLW
4500	34868	B	4541	179	1219	
4501	34869	A	4542	1706	2517	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKT\TIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGLP\PGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQQPNPGGTTNGS DPSGMKV

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4502	34870	A	4543	3	367	DLWPFTRVTVH/WGKANDQTF QGLLDTGSELTLPYGPYKRHCC PPVKVRVYGGQTDGSRMTV GYHKLNQVVTPIAAAVPDVVS LLEQINTTPAIKWVHSSIPSSN GSGVYVIRLEQVLKAQ
4503	34871	A	4544	2	541	
4504	34872	B	4545	1	681	
4505	34873	A	4546	2	1091	PRGRNRRRKTFQERRMTLNES EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAAIAAI PDVVSLLAQINTSPDTWYAAID LANALFSIPVHKGYINSLALCH NVIWRELDLDFSLPRDTTLVHYI DDIMLIGSIKFLGVQWCGACRD IPSKDPADPMVLEVSADRDV WSIWQALIDESQQRPLGFWSKS LPSSADNYSFPERQLLAYYWAL VETERSTMGHQVTMLPELPVM NWVLSDPSSHK/ANGLAGWSG TGKKHDWKIGDKIEWRRGMW MDLSEWSK/D/VKIFVSHVSAH QRTVSAEEEFNNQVDRMTRSM DTTQPLYPTTPVIAQWAHE
4506	34874	A	4547	1	1236	
4507	34875	A	4548	1	1467	GEKNDQTFRKLLDTGSELM PLRVVPTTSLFNSPIWPVQKTD GSGRMRVDYHKLNQVMTPTA AAVDPVVSLEFINTFLGTWYA AIDLANALFSIPVCKAHQKQFA FSWQGGQYTFTVLPQRYINCLA LCHNLIQRDLDFHLLPQGITLV HYIDSGPFIK*PEAASFEGPEQ EKALQQVQAAVQAALSIGPYD PADPMVLEVSADGDVWSL WQAPKGESQWRPLGFWSKALP SSTDNYSSSDVQLYTDSWAVA SSLAG*SGTWKKHDWKIGDK WGRGMWMDLSEWSKTGKIFV SHVNAHQLVTSAEEDFNNQVD RMTRSVDTTQPLSPATPVVAQ WAHEQSGHGGRNEGYAWTQQ HGLPLTKADLTATAECPICQQ QRPTLRPRYGTTSQGDQPATC WQVDYIEPLPSWKRQRFLLTGI NTHSGYGFAYPECNASAKTTIH GLIACLIHCHGIPHSIASLYRER GTHFTDKEVQQWAHAH

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4508	34876	A	4549	2	1602	NLSPILPQDLWPFTRVTVHWGK GNDQTFQGLQDTGSELMIPGD PKRHCSPPVKVGSYGGQVINGV LAQVRLTVGTVGPRTHPVVIS VPECHIDILNSWQNPIDSLTG RVKAIMVGKAKWKPFPELLPIK IVNQKQYRIPGGIAEISATIKDL KDAGVVIPITLPFNPFWPVKKT DGSWRMKVVYCKLNQVVTPI AAVPDV/VVSLLEQINTSPGTW YAAIDLANAIFSIPIVHKAHQKQ FAFSWQGHQNTFTVFTILLHH KVGHAQQHSIIKWKWYIHDGA RAGSEGTSKLNEEVPQMPMVT TSAALPSLPRPAPMASWGVLY DQLTEEEKTRAFTDGSARYA GTTQKWTAAALQPLSRTSLKG SGEGKSSQWAEQAVHLVVHF SWKDKWPDVRLYIDSWAVAN GLAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPVKPIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI

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4509	34877	A	4550	1	1891	MLSSTQNAGGSYQVRGALDT QEWKWGEVSPRTLNV DGRAL VSVANTHGTDRPAYTLNPQSR DQRSGVITLGYKRPLEREDLFE LKESDSFCTACPIFEKQWRKEV LRNQERQKV KALNKLDEALCP GIILTQSTDSNANLFQKQPHRHT QTSGRWQIIIFCEHSSDFGWNG YGYAVALLVVVFLQTLILQQY QRFNMLTSAKVKTAVNGLIYK KLGWSGKVS WLILHDVGHGIM EGYIAWKGSDVRITWEKKST EMRTRPAQKMALLSNVSRQK FSTGEIINLMSATHGLDSKPQSP LVC PFSPNPNGRISPLARAGLAD HYRVTHLQILKLYAWEPSYKN KIIKIRDQELEFQKSARYLTVFS MLTLTCIPFLT KISLGRLEDFLN TEELL PQSIETNYTGDHAIGFTD ASFSDWKTGMPVLKESIRIRIEQ VLNQLSLFETVDYPGSVAYVSQ QAWIQNCILQENILFGSIMKKEF YEQVLEACALLPDLEQLPKGD QTEIGERAVNISGGQQHRVSLA RAVYSGADVYLLDDPLSAIDV HVGKQLFEKVIGSLGLLKNRTH ILVTHNLTL PQMNLIVVMKSG RIAQMGIYQELLCKTKNLNTNFT KSSVNKKKVGEWEESGRGS
4510	34878	A	4551	2	542	LTS AKVKTAVNGLIYKKVSLAT LCVYFLLDERIILTAPKVFTSMS LFNILRIPLFELPSVISAVVQTKI SLGRLEDFLNTEELL PQSIETNY TGDHAIGFTDASFSDWKTGMP VL/NRGSEAYVSQQA WIQNCIL QENILFGSIMKKEFYEQVLEAC ALLPDLEQLPKGDQTEIGERV
4511	34879	A	4552	1	667	IETNYTGDHAIGFTDASFSDWK TGMPVLKESVAYVSQQA WIQ NCILQENILFGSIMKKEFYEQVL EACALLPDLEQLPKGDQTEIGE R/GKETAVNISGGQQHRVSLAR AVYSGADVYLLDDPLSAIDVH VGKQLFEKVIGSLGLLKNRTSH SVCHYTLLAVPHLLEVQILTGN FIQSLGFNYHEYANNSNAYIVN LDLFPGFQTCVYKLLSPIRCLIC
4512	34880	A	4553	201	336	QQTPGKAVHAPFIADQSLT*EL VSVPFQFQLFPYRR*DSHSGKS
4513	34881	A	4554	3	515	

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4514	34882	A	4555	1	852	MPCTTSGLDKVPTSKKALTRY GYGSLTLDGSGIIPCKMCLSPS TRIVRPSQPRGTEDPDETGDTEF VNSDESFLLEGATSPSPVVAVSP PRPMLPSAFPPLSEDINPVLPEA TVLASPEVVAKQTHVDSPRKPL STFLFASRPVTKLKSRTQPGGE VDSVTCEEKTDGPWRKTVDYC KLNQVVTPIAALVPDMVSLLV QINTSSDTSYAAIDLAKAFFSIP VYKAHQKQFIFSWQAQQYTFT VLPQGYIISPALCHNLIRR/DLD HFLLPQDITLVHYIDDIRL
4515	34883	B	4556	288	327	
4516	34884	A	4557	51	598	LFGGCHTSGGLAVRVPRMPRG SRSRTSRMAPSASRAPLK*ELE PRQAQVAQPPAAAPPSAVGSS\ AAAPRQPG/LFMAQMATTAG VA\VGFCGCGHTLGHGI\TGGLS VGGKLI*ALRRP*HQFNQGSF RGTQAKHSKQPALPLLWRJKT SFREVVPPEPRVTIQGFCGGFPM RLLETVPDL
4517	34885	A	4558	1	10434	MTVIRSGIAYILHLKSYDVNIQT GSNACNQPTHPNGDCSHFCFPV PNFQRVCGCPYGMRLASNHLT CEGDPTNEPPTQCGLFSFPCK NGRCVPNYLDCGVDDCHDNS DEQLCGTLNNTCSSAFTCGHG ECIPAHWRCDKRNDVGDGSD HNCPTHAPASCLDTQYTCDNH QCISKNWVCDTDNDCGDGSDE KNCILNCTASQFKCASGDKCIG VTNRCDGVFDCSDNSDEAGCP TRPPGMCHSDEFQCQEDG
4518	34886	A	4559	24	849	ATGRCCCGLAPGFPLCWVLYP GGRGSA\CEPHVLRRTGSPLQRE QRTNGRTDLSSLLPNLNFDSP RCKHKNQLAITLRKRIRKLATS LFSSTIFRISGTSVIISAPGAGLPL PALFPTRCQPKFSRSIDPTGKAV QTADIRLSARATLWLGGSIESP VLCSTLRLLLRRLPPPLTWTSPN RPTQPCTAQTQTNQSVGIAAPS AIRVIYPESVVLNAVIVLPGDPE VSGLPRAFKRRFSVEVRLDCGT FKLLL VYCTHPGDKKVNTCKT GALVAF
4519	34887	C	4560	192	449	
4520	34888	A	4561	1	786	
4521	34889	A	4562	3	14073	

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4522	34890	B	4563	58	1282	
4523	34891	B	4564	1	684	
4524	34892	A	4565	1	1356	MGRKYTLKWEFEEGFTEKKEL KKVTSEGYITPVEIYDYRQYCY ALQRPIATTQIDDVRDGHTRRL AKLEKQEQTSHKASRRQEIHKIR AEPKEIETQKTLQKINESRSWFF EKINKIDRLLARLIKKREKNQI DAIKNDKGDITTNPTETIQTIRE YYKHLANKLENLEEMDKFLH TYILPRLNQEEVESLNRPTGSEI EAIINSLPTKKSPGPDGFTADFY QIMLEVLARAIMQEKEIKGIQL GKEEVKLSLFADYMIVYLENAI ISAQNLLKLI/SNFSKVSGYKINV QKSQAFLYINNRRQTESQIMSER PFTIASRKIKYLGILTRDVKNL FKENYKPLLNEIKEDTNKWKI PCSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFI WNQKRACITKSILSQKNKAGGI MLPEFKLY/YQGSSTQTAWYW
4525	34893	A	4566	1	1102	MANCDINRKDEKGGKEKKDRS KSKSLMDTLKRQLSAKQKPKG KAGKPSGSSADEDTFSSSSAPIV FKAVRAQRPIR/STSLRSHHCSP MPWPLRPTNSEETCIKME\PSPP LNGVRKDFHDLQSETACQEQA NSLKSSASQNGDLYLRLEHVP VVIGLLPQDYIQYTVPLDEGMC PLEGSSSYCLDSSSTMEVSVVPS QVGGRSFPEDESQADQNLVVA PEIFVDQSMNGLLTGTTGVMLQ SPRVGPHHVPPLSPLPPMQNN QIQRNFSGLTGTEAHMAESMLC HLNFDNFNSAPGVARVYVSQSS GPMVVTSLTEELKR\LAQGWL WPPLKSVRRCVLARRSLYTKQL NQEEGTELNLGSSCLLC
4526	34894	A	4567	364	661	PFHFTCFCKVYFADPGSAARS VPGSPSAVCAQCILCTGHCAVC PGLGEHHSSGRTLMTKLHSHK KLKPCYLLC*SKN*KTQGGSPK S*NVNKYLVTLI
4527	34895	A	4568	53	470	CISIIILPGPSAKTLPVLSLSSPY TASFQPTFVRTFSHQTTYLSLGS VPVAQLKCSAGQQRGELLCCR GVWGSWISVSHFTEIATLPAAC LEDGEDFNLGILDSSSKYL*SIQ KTNTHRIVDGKVVSETNITDVL

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4528	34896	A	4569	1	1635	MGWTCILFLVAAATGAHFLV QLVQSGAEVKKPGASVKVSCK ASGYTFTYCYLHWREPVSFIG RCILLTLLGDCLWGEAWTQ GDVLQPSDRASFLAMGVNTTG QQVGDLSGDFPNSVGKACKCR EFHTLTPLAHTSSTTHETFPGMS HIALELSQGSSLLQCLEAQTQG QRQELTVSANEQPESRGHGCVL LCETQSEGKSVRAQAQTSKGS QKRLGGARTLCTGLSPGQRKQ ERSKIDTLTSQLEKLEKEQTY KASRRQEITKIRAELEKETQKT LQKINESRSWFFEKIYKIDRPLA RLIKKKREKNQIDAINGKGGDI TTDPTEIQTTLRQYYKHLANK LENLEGMDKFLDAYTLPRLNQ EEVESLNRPTGPEIAIN/STPT KKSPGPDRFTAIFYQ/RSDVLA RAIRQKKEIKCIQLGKEEVKLSL FADDMIVYLEIPIISAQNLKLIS NFSKVSGYKISVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTKDVKDLFDNCKPLLN EIKEDTNKWKNIPCS
4529	34897	B	4570	1	429	
4530	34898	A	4571	1	897	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYLNLKDIY DKPTANIMLNGEKLKAFTLRGT TRMNQGCPLPSLLFNI/VLEVL ARAIRQEKEIKGIQIGKEEVKVS LFADYVIVYFENPTDSSRKLEL IKEFSSFWIQD
4531	34899	A	4572	1	1461	
4532	34900	A	4573	49	365	
4533	34901	A	4574	45	534	VCHLEPGERCPSRGCRVGV QTEKMQTAGALFISPALIRCCT RGLIRPVSASFNSPVNSSKQPS YSNFPLQVARREFQTSVVSRI DTAAKFIGAGSATVGVADSGA GIGAVFGSLIIVYARKLSLKQQL LFYAILGFALSEGMLGLFCLMV AFLILFAM

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4534	34902	A	4575	98	624	DWYSRSHPKELWEGSKKKSIN HSACSLQAHGGPISTSLNPHSKP RGRVSPPPGKRQQEGRARPGRS PELAGPPPANVQETSQKNACAS RLSEPPGEGPEAAHPQPHRGS SSGPCSRGGYRQPLFPGPAASG VPASGSV/RSRIPGAPQGVALAR RGPQGSPSPAPRFFPATERQS
4535	34903	B	4576	1	604	
4536	34904	A	4577	3	331	LAPAPSAAWRTGLKALTPTSST WMLCASEHHVSGSGCVGDHLA GCRQEKTLPQRYCVFCRRRR ARSLQAQCGFSLTPALELLPVPF LKLLCPGPPRRRRRICRILPGAGL
4537	34905	A	4578	1	871	
4538	34906	A	4579	3	510	GPPSRVDDFVAAAAA VAPVV LYACPRHSPIPPWSIRGRRVVVT GFGPFGEHTVNANWIAVQELE KLGLGDSVDLHVYEIPVEYQTV QRLIPALWEKHSPQL\VVHVGV SGMATTVTLEKCGHNKG YKGL DNCRCFCPSQCCVEDGPESIDSI IDMDA VCKRVTTLGQCI
4539	34907	A	4580	1	285	MAPGALPALGEEEGPGASGLSA ELGHL SAGSRAFRETSVDSALD TPFPAGTFVRLEFKLRQTE\SGR RKDWKKPKCKVQPERRKQKCL TCVKLEC
4540	34908	B	4581	1	228	
4541	34909	A	4582	1	697	MGLERPVD RVMWLP GALWNS AVVSAPVGEEWALAGTGNQGL QDIQGMHCPEEGISQIHGRDHR NAKDSHTGVWCSTLGIISTIIIR PKCRFSIDRSDSDYLP TSSCRD PGGAEPQDRPRVEQLCSVLAN RSGPLAKCHWYESPVSYTQVC VSDLCQYGTGNRMLCTMLEAY VQLCALRCALPARVASQPGMQ LRVACPANSYYDSCGPPFPATC ASLNSSAPCTLQCTVSCFCLEGF ALEAG\SSVPHACCGCHLQGRY I/APGPWPSATGMRAPCPTRRC VSLTSASMARATACCAPCWRP TSNSAPCAARCLPAWRASLGCS YVWRVQPTATMT PVGHPSRPP VLASTPPRPAPSSAQ
4542	34910	B	4583	1	208	
4543	34911	A	4584	2	230	

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4544	34912	A	4585	106	669	GCGCVLLPGGVGAPGHSPEGP VPPRDARQLRTCGLAGTLHLST SCGHPTGAWRGALGSQWNGH NPVQDHLQEAQPWFLEFDRG* RCFWRMATSFPRYPTWDDY*R LPCCRCLPQCKKPAETTGCLPIS GEKTHGGVGDLLGEAPARLRQ WASQRQPATDLPA*ASRGRPA* GK DTHRACVAGEAAQDA
4545	34913	A	4586	2	597	TPKGGIRLGLAKLGCPTAWINP YGRGMPLAHSVLSGARVLVV DPDLRESLEEILPKLQAENIRCF YLSHTSPTPGVGALGAALDAAP SHPVPADLRAGITWRSPALFIYT SGTTGLPKPAILTHERVLQMSK MLALSGATADDV\YTEVLPLY HVMGLVVGILGCLDLGTSLAS YGLRVYFILWSVLGPSRRTLCL
4546	34914	A	4587	9	573	EEEERKKKK\KKEEEEEGEEE GGGMGEKKKKEEEEEGEEGE KEREKER\EKERKKKEERKEK ERERKKKRERKKEKERERKEG EGERERKSTECTSSSYI\IKKL VV KQPQAAPSGEIPPEGIAVLGGDS SMPVIVPEDLPVGQDVEVEDSD INDPDSLILVSSQAGGGGVITAY CNLEHLGSSDPPT
4547	34915	A	4588	1	297	
4548	34916	A	4589	114	752	DGSAAPRATSDSFTYTVCVSEF PVDDFMELGRSIPDTQL/DAVIE SQKANQCAVLIYT/SGTTGIPKG VMLSHDNITWIAGAVTKDFK/P TDKHETVVSYLPLSH/AAQMM DIWVPIKIGAL/IYFAQADALKV RLSKDLGSDFILLGSPVGLRPST KRLPVLSKLGHTYRRVVWVEE SSGPHTISNQNNYRLQGPMMK LKRHFVAQKYKKQIDHMYH
4549	34917	A	4590	1	837	MVTQKL PNAQENLKAHERQAA GCCPGRSHIFQHVGP GASESLR GEGCSTHPEAQAQERCEQWK KDQHWCLASHTDVTQQWGRH IVQEGGTHRGPSAVLSLR TALD EG/ARGGCSHPITAQLPLQLRHL PRPPAPAR/PSAPPAATSPPTP PPAPAR/SSAPPAATSPPTASSG ACAALPQLPLQLRHLPRPPAP AR/SSAPPAAMSP/PPAPARP RLRRSTACATALRPGERGSAAA QPGARSETSFCRLG/AAA AVL D PAFISSQALACP VVGVI

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4550	34918	A	4591	3	377	
4551	34919	B	4592	1	1632	
4552	34920	A	4593	1	1224	MDGTNRFYLYVWETERQQDV EHVARCILCYDKCRPDPECPAG TPGPQEVVDVLFVVDSSYGV DADVYRGSLSLADAALEDLEV AEQPGASHRGARVALVTHHTP NF\GRGFHLTTYGNRKQMQRH VREASARPLQGTAPPGHALEW TLENVLLAAPRPRKAQVLFIV ASETSSWDREKLWTLSEAKC KGITLFLVLA LGPGVGTHELAE AELVSAPSEQHLLRLQGVSEPE VNYAQGFTRAFNLKSEQSPG TGAPWVEWGEFTPEGIWACR WTNQYPPPELTEECGGLHRGD TVLQLVTPVNRFMYYAAKENS LKRKTKANFH LAVELEDESIFR AYYEGTLYEVSALPLQRSNELL QKWSLFHGSNGRRVSGSHPEV ALQQGGTGLPAVLVWQLWRQ
4553	34921	A	4594	266	556	HKVQQICYRLRLVSQILFSINQT LAERQIVTFTVYPDTERDRETR NLADLKQIKIDLKGFSDNPDGY IDILRGLRQSFDLTWRDIMLLL NQT LAPN
4554	34922	B	4595	1	735	
4555	34923	A	4596	70	624	PTAMVEEGIAAGGVMDVNTAV QEV LKTALIH DGLARGIREAAK ALDKYVYQSQYCGFLQPDQKL ATQGKKGMGVHGVKRKSS*M ASVLPGNLRKRRQAHL CVLAS NCDEPMYVKLVEALCAEHQIN LIKVDDNKKLGEWVGL\CKIDR EGKPRKVVGCS CVVVKDYGKE SQA KDVIEEYFKCKK
4556	34924	A	4597	145	682	SWRNRTVSNGSAVSASSVHLCF AECKALCGERILTDGSDVSRPTI AAGGVTDVNTALQEV LKTALI HDGLARIGISRTWPKAL\DKRQ AHL CVLASNC\DEPMYV\KLIV EALCAEHQINLIK VDDNQET* EKWVGLCK\NDREGKPRE*WL VGS*CSSLRTIGKESQA KDVIEE YFKCKK
4557	34925	A	4598	252	590	RSLDLVWWQLSGGLAGSAKPK PCTPVKQSTVMSFSPHKEQYFL MDGKKK/YDKESEKYYSSILEKH LNLSAKKKESHLQENSSGPSVS TKLINLFSKRLLCAFLPAQLTPY SFCS

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4558	34926	A	4599	1	1662	
4559	34927	A	4600	4430	4904	LIKGTRCLGRRPSFAYSRSN1*A *S*/EGTSAQLAELLALTALALE LGNGKRINVYTD SKYAYLILHD HAAIWKERAFLTSGGTPIKYHK EIMELLHTVQKPKEVAVLHCQS HQQESSPLEDTTTAGPLLHPYP AGSSPERSSPSSQQLLGD LFRGII
4560	34928	A	4601	1	2630	MEQANHPVRLINVCKDTLKKI VQQETSCPLTHVHYAEAITGRC TAPEDKGS LDQKPPTDDPTGCP WQVPAHVITLTETWVCLTIEGQ EIDFLDGTGVQKPNGQWRLVQ DLIPIKEAVIPLYPVVPNPYTLIS QIPEKAEWFMALDLKD AFFCIS LHSDSQFLFAFEDPTNHTSKITR TVLPQGF RDSPPLFGQALAQDL GHFSSPGTLVFQYVDDLILATSS EASCQQATLDLLNFLANQGKV VPNLWGKLPLNTTRKSWSYCT QCKNPRRWQSYTAKAIKKQLA EAGPVTAILLLLIFGPCIFNLLIK FVSSRIEAIMLQMVLMQMEPQMS STNNFYQG PLDRCTDPLSGLES SPRCSEAPCLMSQWTGDIEYDL LLPPIPHQTTLCDLQNLKGIFSR YHRKWYGEILALLTPTANVCG HSQVPHACSIYHDPVTWNPQG LLPKSLYGVTKWGDKEHFEWG SQQQRAFYELKVKLMSAPALG LPDLTKLFTLHVSDREKKMAV RVLTQTMGPWLG PVAYLSKQL DGVSKSWPPCLRALAATALLA REVDKLT LGQNLNIKAPHAVV TLMNTKGHHWLMNARJTRYQS LLCDKPHITIEVCNTLNPTLLL VSESPVEHNCVEVLDSVYSSRP NLRDHPWTSVDWELYVDGSSF INPQGESVWGHIQGRPIKLWG KRRKVSARDLAIIGGSVEAPKL
4561	34929	A	4602	1	506	FLALTSRFLFVLLNEETRSHLEK SLCWKVSPHIKMDLLQWIQSK AQSDGSTLQQGSLEFFSCLYEIQ EEEFIQQALSHFQVIVVSNIASK MEH MV\SSFCLKRCRSAQVLHL YGATYSADGEDRARCSAGAHT LLVQLPERTVLLDAYSEHLAAA LCTNPNIELSLYR
4562	34930	A	4603	3	381	
4563	34931	A	4604	3	483	
4564	34932	A	4605	3	410	

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4565	34933	A	4606	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
4566	34934	A	4607	2	481	LAPLVKEIHDNFGMGEGLMTT GHAIATHKTADGPSGKLWRD GRGAHQNIIPASTGAAKAVGK VMPELNGKLTGVAFRVPTANV SVVDLTCRRQKPAKYDDIGKV VRQAPEGPLKGILGYTEHQVVS SDFNSDTHSSTFDAGAGIALND HFATLSPPPH
4567	34935	B	4608	79	278	
4568	34936	A	4609	2	1201	PSTACRNSARACSTVSRIFFCVA SRATSLRTPMGKVKVGNGFG RIGRLVTRAAFNSGKVDIVAIN DPFIDLNYMVYMFQYDSTHGK FHGTVKAENGKLVINGNPITIFQ ER\YPSKINWG\DAGAEYVLEST GAFTTMENAG AHLQGGAKRVI ISAPSA\DA PMFVMGVNHEKY DNSLKIIISNA\SCTTNCLAPLA KVIHDNFG\I\VEGLMTTVHAI ATQKTVDGPSGK\LWALMGPR GFFQEHQSLPFTGGC/ARVVGQ GSSPELERGKLTWAWAFRC PQ LPKRVNGWDL\TCRL\EKPCPK YD*HQGRVVKAGRRKGPLQGA ILGLQLSNPGGSPSGLSTSDNPL LPPFDAWGLAFALQRTHFCSKL IFLGIDNGILGYSNQGGWDLHG PPWPTWAFQGS
4569	34937	A	4610	61	226	WRIMPTKKVMITMGRRTQRRM LES/SQQFWPCHLH*KLVPSCLQ LGCLVFHFRER
4570	34938	A	4611	153	495	QHAAECKAHAGLPGLPLPARK LASRHGAPRWRQSGVGP GGKV ENYGRRLPGTRHPQSLSHKP AKKIDVARVTFDLYKLN PQDFI GCLNMKATFYD TYSLSYDLHC CGAKRIMK
4571	34939	A	4612	1	643	
4572	34940	A	4613	286	698	ESDNNLTQGTSI*QGTRHPQSLF PLSPAKKI*CGPVLTF LTCYKLN PQGLSLGCLNIEGRFFMDYVIPF PIDLALLGAKRIMKG\TLHWA LFSMQTTGPRA/VFTSCYLQQL LDATEDGHPPKGKASSLIPTCL KILQ
4573	34941	A	4614	59	294	
4574	34942	A	4615	1	2253	

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4575	34943	A	4616	2	197	LARSGMGFYRRGLLGEVKGRV EGNRMWHVIVRTSPNHRYTFT LKTHPSVVPGSIAFSLPQRPWS
4576	34944	A	4617	302	441	
4577	34945	A	4618	944	1257	RLPFSPRSVGPTPQAPRLLCNG WRQLPTTFFTELEKTTLKFIWN QKRALIAKTI/LKPKNKAGGITL PDFKLYYKATVTKTARFLLYK VSQIDNTDLFDPVKIKFE
4578	34946	A	4619	1	1370	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQMGQWFNIRKSM NVIQHINRTKDKNHMIISIDA AFDKIQQPFMLNTLNKLGIDGM YLKIIIRAIYDKPTANIILNGQKL EAFPSKHGTRQGCPLSPLLFNIV LEVLARAIQKEIKGIQLGKEE VKLSLFADDMIIYLENPVSAQN LLKLIGNFSKVSEYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SIRIKYLGIL*LTRGVKDLFRENY KPLLNKIKEDTNKWKNI PCSWV GRNNIMKMAIL\PKVIYRFNAIP IKLPMTFFTELEKTTLKFIWNQ KRARIAKSILRQKNKAGGITLP DFKLYYKATVTKGAWFQHHK HTLIKEPLDSVFSPNRPDHGK KQDKQPQTKNIANASADSKNT QQMNGFVTGAATSFIPKDR TAS SLCGCTGRRRQSVAKYLRI RPHI NVPSFTYYK
4579	34947	A	4620	2	671	WHQNLALTRASGSFHS/WE EG KGGADMSHEICVANLQVYVRS TDFDRTLMSAEANLAGLFPPNE VQHFNPNISWQPIPVHTVPITED RLLKFPLGPCPRYEQLQNETRQ TPEYQNRSIQNAQFLNMVANET GLTNVTLETIWNVYDTLSCEAP SPPWGRKPPLERLWPRPRELTC PLRYTQTHGLLLPPWASPQTV QRLSQLKDFSFLFLFGIHEQVQ KARLQG

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4580	34948	A	4621	1	1923	DSVAFEDVAVNFTQEEWALLG PCQKNLYEDVMQETIRNLDCG HETEFVEYENLRDPMNMLHT TDGPHKCKICGKGFDPCSSLKS HERHTTGEKLYECKQCGKALS HSSSFRRHMTMHTGDGPHKCK ICGKAFVYPSVFQRHEKHTAE KPYKCKQCGKAYRISSSLRRHE TTHTGEKPYKCKCGKAFIDFYS FQNHKTTHAGEKPYECKECGK AFSCFQYLSQHRRTHTGEKPYE CNTCKKAFSHFGNLKVHERIHS GEKPYECKECGKAWSLTCFLR HERIHMREKPYECQQCGKAFT HSRFLQGHERIHTGEKPYECKE CRKAFSWLTCLLQHERIHTREK PYEGKQCGKAFTHSRFLQGHE RHTAKKLCECLSTVSARKSVD LIASYPFLNLFSTPKTLRNCYS RRHERMHTGEKPYECKQCSKA LPDSSSYIRHERTHTGEKPYTCK QCGKAFSVSSSLRRHETTHSAE KPYECKQCGKTFHHLGSFQIHM KRHTGDRPHKCKICGKGFDPRPT LVRYHERISTGEKPHECKQCGK AFDHLGSFQRHMIRHTRDGP KCKICGKGFDSCSLQSHERTH TGEKKLYECKQCGKALSHSSSF RRHMTMHTGDGPHK\CKICGK
4581	34949	A	4622	1	256	MGKGSFKYAWALYKQKAEE RGVTIDTSLWKFETSKCYVTIK DFIKNIITGTSQQGQTASVAFC ILSSCPASWKNQVSHRLGG
4582	34950	A	4623	173	717	SINAVASTRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERG ITIDISLWKFETSKYYYVTIIDAPG HRDFIKNMITGTSQADCAVLIV AAGVGEFEAISICQNG\QTRH ALLAYTLGVK\QLICRVNKMD STEPPYSQKRYEEIVKEVSTYIK KIGYNPDTRAFVPIISGLNGDH MLEPKC
4583	34951	A	4624	3	525	GCPSPGPHRCVAGHGAPGAVC RHVPTAWPGYSRCSPPGPRGV EAVGHQRHRAPETHSTPAADR HRRGLPGSKSDSAMESPPSPAP QAQPPKPVPKPRTVFGGLSGPA TTQRPGLSPALGGPGVSRSPAPS PRPPPLPTSSSEQSSALNTVEMM PNSIYFGLDSRGRAQAAQDK

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4584	34952	A	4625	2	448	RRAHACARRRRKKEMLGVNVL TSHSSQERMKLTFFKKAVNFA DAAAQGGPLLPA MVNPTMFFH IAVDGEPLGCVSFEVRGLESKK *LLI*SIKLC*QIG\LFADKVPKT AENFHALSTGEKGFYKGCSCFH RIIPGFTCQSGDFTRPTA
4585	34953	A	4626	1	751	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADKVPKTAGV*FFFKQKIFRA LSTGAEKGFYKGFPAFHRIIPG FMCQGW*LSHRHNGTGWQVH LMGRNFEDENFILKAYGVLGS LSMAKCLDPTKIGSPVFPSCA KTNEWLADGQALWCFGKIVKKG LNIVEAMERFGRNGKTSKKI TIADCGQLE
4586	34954	A	4627	3	615	PECIIGIDILSSGQNP HIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALG LLLGF GGN*TFDY
4587	34955	A	4628	3	354	DSWA\VANGLA\GWS\GTWKK HDWK\NDNEIWGK\SMWIDLS EWSKTVKIFVSHESAHHIT*KSS AEEDFNNQVDRMIHSVD TTRPL SPATPVIAQWTHEQSGHGGRD GGYTWAQQHGL

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4588	34956	A	4629	281	1529	VRVLSPEVEKELKLWKNT HKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLIPGDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNP HIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYHIL GGTVEISATIKDLKDTEAVTPTT SPFNSPIWPVQKTDGSRMTV DYCKLNQVVTPIAAVDPVVS LLEQINTSPGTWFEWSPK\KAL QQVQAAVQAALPFGPYDPADP MVLEVSVADRDALWSLWNAI GESQRRPLGFWSKALLSSADNY SPFERQLASYWALVETERLTV GHQVTLRPELPIMNWVLSDPSS HKVSGAQQRSHKWKYIHDW
4589	34957	A	4630	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPIQQQRPTLSR YGTIPW/WAWDAPGGRCWRL QKAGE
4590	34958	C	4631	122	325	
4591	34959	A	4632	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQ GAL
4592	34960	A	4633	115	905	EAFQTLHFCCLGLRQGTKRMA GEKVEKPDTEKKPEAKKVDA VGGKVKKGNIA\KKPKKG\RP VCSRNPVLCSEGFGRYSRS\AM SRKA\YQEGSTFSPLKSKVEKK KKEKVLATVTKPVGGDKNGGT RVVVKLRKMPRYPTEDVPRKL LSHGKK\PFQ\HVRKLRASITP GTIL\ILTGRHRGK\RVVFLK\QL AKLAYLLC*LGPLVLNRVPLRR THQKFCHLPLSTKIDISNVKIPK HLTDA YFKKKKLRKPRHQGEI
4593	34961	A	4634	2	350	FVALAAVLCRQCLPRAWVCCR AGQGSGRHYRAAICAELKKPLT IEEVAP/DPVGPHEVRVDVHFC GVNFGDILICRDQYQERPHLPFT PGPVADSRKGLPIRSCPPYNL WHCDFCS

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4594	34962	A	4635	1	556	MGLKLNTHMDQTRGSLSGDTL EGSPSKRAKIIILKRGGRGILGG VGVQERRTGQRPALPCHDLRR AEVVPDHRRGGPRPVGPHEDL WQIPEKVSLQEAAVLPITYGTE SFALEHRARTQPGEIVLVTA GATGLAVMWQQISSGQGNIAA AGSDEKCKLAM\EKGAQSSVN YSQGSCLKDSATDQ
4595	34963	A	4636	1	142	
4596	34964	A	4637	2	368	
4597	34965	A	4638	2	504	HKVGHQAQHSFITWKWYTRD WSRAGPEGTGVPYDQLTEEEK TRAFTDGSARYAGTIRRWTA AALQPLSRTSLKESGEGKSSQW AEVRAVHLVVHFTWKEK*PDV RLYTDSWAVANGLAGWSGTW KKHDWKIDDNEIWGRGMWIDL SEWSKTVKIFVSHESAHHIT
4598	34966	A	4639	182	840	RTAVKGNLPTTPVI/SQWAHEQ SGHGGRDSGYTWAQQHGLLIT KADLAMTTAECLISQQQRPLS LQYSSIPWGNQPATWWQIDYIR PLPSWKQSQDSQDRSRNQGV KVKVAPLTITPSDTTAKFLLHV PAALHSAGVDVLVPEGGMPLP GGTTTIPLNWKLRLPPGHFGLLI PLSQQAKKRVTVLAGVIDLDC QDEISLLLYNRDAKELYRYTAH
4599	34967	A	4640	3	283	SRVSCSPPLSPPPLSPPPLSPP PLSPPPPPLSPPSPPPVSLPPP PPVFSFPSSCP/PPFPPPLPLPPP PPLSPPPPPPWSPSPPI
4600	34968	A	4641	1	531	MGSSHCTQPGMLAAAVGQAVP GTDGTGADSVLSASCCHQHAIH CAQAIRAKGHLQAHTELPSAPT QPPSCARQCPKSGGDLGGRELY NNHEIRSGKHIGVCISFANNRLF VVSIPKSKTKEQILEEFIKVTGS YWVLGLSFD FRKWPV/GQCCQ SFHGRLRATPARRAERRDARSF AL

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4601	34969	A	4642	115	2405	ATAEGSGSSGVKERGAGIRKAE RRRTEASGGGGGRGRRRSWRR AGAEGVSEADARGRGKGREG KGGSRGGARAHREARRRVEL DRVCCQRRELPPFYNSSTRAG HREQRARVSRNPIPSDRISPPQP NGEISGNMATEHVNGNGTEEP MDTTSAVIHSENFQTLLDAGLP QKVAEKLDEIYVAGLVAHSDL DERAIEALKEFNEDGALAVLQQ FKDSDLSHVQNKSAFLCGVMK TYRQREKQGTKVADSSKGPDE AKIKALLERTGYTLDVTTGQRK YGGPPPSVYSGQQPSVGTEIF VGKIPRDLFEDELVPLFEKAGPI WDLRLMDPLTGLNRGYAFV TFCTKEAAQEAVKLYNNHEIRS GKHIGVCISVANNRLFVGSIPK SKTKEQILEEFKSVTEGLTDVIL YHQPDCKKKNRGFCFLEYEDH KTAAQVARRRFN*VGKVQGF GNVGTVEWADPIEDPDPEVMA KVIVLFFVRNLANTVTEEILEK AFSQF\GKLERVKKLKDYAFIHF DERDGAVKAMEEMNGKDLEG ENIEIVFAKPPDQKRKERKAQR QAAKNQMYDDYYGYGPPHMP PPTGRGRGGGGYGYPPDY GYEDYYDYGYDYHNYRGGY EDPYGYEDFQVGARGRGGRG ARGAAPSRRGAAPPRGRAGY SQRGGPGSARGVRGARGGAQQ
4602	34970	A	4643	2	369	
4603	34971	A	4644	1	1002	MNAGCGQTHDCA YRQKRPED VNEEGRLEQRNRKRQDEWGPR DKPASSGYKAGTLDVENWNRA GEGLKHAHQKGLKVDSSAFCT CSLIRTVLMPLSPYYSAQQAE SKNLKESVVPPTASIENKKQER EDKNWPILPPPVAETSVPPPSVA GIETPIQRILRSAAIAGEPSGPCA FPISVRPDSNNPQQFIHEHTPLEF KLLNELKTSVVNIGVQSPFTLG LPESAFGAMRLLPFDVKHVAR TCLSASAYLTWNLNGQEMCTD QVRQNRAAGHGDI AEDMLLGN GP/YFRPGTSNGTKRAWATIPEE GVPVQSFLPFMEGSQEPSAQFL ARLREAV
4604	34972	B	4645	1	575	

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4605	34973	A	4646	1	776	VVLMRNLMMSGTIFSM LANISML GSLVIIIQYITQEIPDPSRVPLVA SWKTYPLFFGTAFSFSIGVDL PLENEMKNARHFPPILTLGMP VTTLDIGMAALGYLRFGD\DTK GSILSLPICWYLHGLSGEGPSQ SFSERETQAQVIVPRSEVNVPRR PVSEHSGRGEQLCGLSCRLYQS VKLLYIAGILCTYALQFYVPAEI IIPFAISR VSTRWALPLDLSIRLV MVCLTSAPMTRSTPFCCKYSTRG RRRWLEIPV
4606	34974	A	4647	1	1294	MKGDFMSKTPKAMATKTKIDK WDLIKRKSFTAKETTII VNRQP TEWEKIFATYSSHKELISRIYTE LKQIYKKKTNNPINKWAKDMN RHFSKEDIYASKKHKMKCSSSL AIREMQIKTTMRYHLTPVRMEII KKSGNNRQPIVGPCDNSVILLY KILANRIQQHIKLIHHDQVGFI PGMQGWENTCKSINVIQHINRT KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLGDGMYLKIIIAIYD RPTANIILNGQKLEAFPLKTGTR QGCPLSPLFNIVLEV LARAIQ EKEIKGSQLGKEEVNLSLFADN MIVYLENPIISAQNLPKLINNFS KVSVCIN VQKPQAFLYTNNR QTESQIMSELPFTIASKRIKYLVI QLTRDVKDLFKENYKPLLNE/I K/EDTNKWKNI PCSWVGRINIV KMAILSK
4607	34975	A	4648	2	711	WNRRRPCIAKTIL/SQKNKAGGI TLPDFKVYCKSTVTKTAWYWY QNRHIDRWSRTETSEITPHIYNH QIVDKPHKNKQWGKDLLFSKW CWENWVAICRKLKLNLFTRY TKINSRWIKDLHEKLKTIKTL EE NLGNTIQDIGKDFMTKMPKA IATKAKIDKWDLIKLSFCTAK ETIIRVNKQPT EWENISAIYPSD RSLISRIYKELKNIYKRLDAVA HTCNPITLKGQGRWIT
4608	34976	A	4649	1	576	
4609	34977	A	4650	1	771	

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4610	34978	A	4651	1	887	FPEDSEPIISHGNYTKQYPV GHKPGRRNTTQRHRLDIQMIM NGTLVIAARDHIYTVDIDTSHT EIYCSKKTAWELDRPMVATCR MKGKHKDECHNFIKVLKKN DDALFVCGTNAFNPSCRNYKM DTLEPFGDEFSGMARCPYDAK HANVALFADGKLYSATVTD AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKLLGLHHELL RRTQDYGHKAGCPESCLLSVRR CPPPQSKAHRESVEELIKGCR HAGFCACGHITT
4611	34979	A	4652	1	2890	MVLLKVDPGLWGSSLRVLLKA DPPYGTQAHAEHGRALAGGL GVGEQSQSLDLRMSHTYGA FLPRAAVSSWCASVRIRKIKKSP LLDGAPLLYEPDTWLKWS WTLVFTHPFSALTHSALTARS DTGSLTSPDGKLYSATVTD AIDAVIYRSLGESPTLRTVKHDS KWLKEPYFVQAVDYGDIYFF FREIAVEYNTMGKVVFPRVAQ VCKNDMGGSQRVLEKQWTSFL KARLNCSPGDSHFYFNI
4612	34980	A	4653	1	480	MEGVEEKEKVPAPVETLKKKQ GNFAELKIKPKMAFVLRIRGVS GVSPKVRKVLQLRLHQIFSGT FVKLN/KASVNMLRIVEPYIAW GYPNLKSVELIYKRGYKINK KRIALTDNTLIVPSLGKYGILCM EDLIHEIYTVGKHFKEANNLLW PFKLSSP
4613	34981	A	4654	3	279	
4614	34982	B	4655	119	177	
4615	34983	A	4656	157	359	HQRCRK**TKLEG*TCRKIEVN TDYIKP*E*EFWMIYYISYLT CSSICNENILQLENREKSRNT

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4616	34984	A	4657	65	900	GLAFPPILQKESHPCLWILFTSP VALSTSRPPCVISSAALCPRRHG FLPPRLAPLAAAFCPRRCLFLP LPPRLFAPAPVDFCPRRCGLPL PPRVFAVSCPRRRGLLPPLLFA SAAAFCGFLAPSPWLFAAFGTR CRGFLGLLVPAATAFFPRRLRF FLPRLFSPAAAVTFCHPCFLPPP PRLSVPAASFCRRGFQQEIRTV EIRGSGTRVGLQHQTGHLPRGP SSLPAELHA*ARVSPLEASPPSC TR/WMQQPEDLGPALTGLRIGC VGACWEL
4617	34985	A	4658	927	1157	ARRSTAPVDCK*LQP*AQAAL WVLVWDHEAARQPEGVVQPA PGLWPSSRRWRKFQAPGSSGV CHPGALQACPEELS
4618	34986	A	4659	1	563	MKLVAVFQDKQDLHHGGDDISA SSMHTQSPERFTSASELGTNNV SAFSVYQAASEIEVTSSVLHAS SQKGLSSQHLGFGAPQAGGGSF RHLAPQRKEVLEEYFKYDPEH KLIFRFVRTLFKAMRLTAFAIE ITHGGRDVERATGLVNKIHRQG CGDSFCNIGGNAKPYVCCGKE YVSSSKHQNGIAI
4619	34987	A	4660	1	681	MGKYAEALRSQQKAVLMSVR VMGIEHPNTIQENMHLALHCFT SRQLSLALSLLQGAHYLM/LLV LGE/DHPEVA/LLDNIRRVLHRV MEYDLSLCFLDNALAVSTKYQ GPKALKVALGHHLITSVYESKA EFARSALQHQKEGLAAH/TSLGE DQEKTKESSEYKCLTQLAVAL RRAMHEIYRNGSSNNIPPLNFT APSMASVLEQFKGINGILFIPLS QKDLESKAEVAQ
4620	34988	A	4661	2	443	VWQSGGDSITSKTNIITCVNCY LYTCIDSSFNQYHSILIVRARQD IWLPVALHRPWESSPFIVVINNI LQKILKRSTQFIFTLIAHMGIA VTVIAATAGVALRQSIQTVHFV DKWQKNSTRMWNS/QRIDQKL ANQINDLRQTVIW
4621	34989	A	4662	2	377	FAFTWTDPDTHQAQQITWALL PQGFADSPHYFSQAQISSSITY LGIILHENTRALPADHV*LISQT PISSTKQQLSFLGMVRYFCLWI PSFTILTKPLY*FTKANLADPTD PKSFPHSSFRSL

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4622	34990	A	4663	1	1095	MAKAVLSKKNKTGSTLLPDFKI YYKDIVTEEPGIETLRHTSSTKF SKGLPSRESFSEKQNKTTTHLH PGEINSFIAHTKPAWRSHTDA HEIWCRDSDQVNSPGRSIPCPA LCSMRKIHLRPLVLRPASPRNIS PILNPLHLIAALLPNPKPPFRPPL VSPDLNPQVKDISTPSWATDHV HLTVSLKPYHPYPAQCQYPIQ HALKGLKPVITRLLQHGLLKPI NSPYNSHILPVLKPDKPYRLVV QDLRLINHIVLLPIHPMVNPYT LLSSIPASTTHYSVLDLKHAFET IPLHPSSQPLFAFTWTDPDTHQA QQIT*AVQPQSFTDSPHYLNQA QISSSVTYLGIILIKAHVLSLPV
4623	34991	A	4664	655	2417	KKRESMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIQGRQGW NICKSINVIQHINRAKDKNHMII SIDAEKAFDKIQQLFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGKKLEAFPLKTGTRQGCPSP LLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDANKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRAHITKAILSQKNKA RGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTQPSEITP HIYNYLIFDKPDKNKQWGKGS LFNKWCWENWLAICRKLKLD FLTPYTKINSRWIKDLNVRPKT TKTLEENLGITIQDIGMGDMFM SKTPKAMATKDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK VFSQPTHLTG*YPESTMNSNKF TRKKQTTPSKSGRRINEQTLLK RGHLCSQKTHEKMLTITGHQR NANQNHNEIPSHTC

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4624	34992	A	4665	1	234	MQNQEKFGELISEWAPYGRPRP QIAVGDDHHISVYDGEVNW RMS SLQASAAGKDYANRGTEWGEE PSQMLRHLLSGEMCVSRNRG QPLANSERRSEALSPVTPKKLIP ADGHKSDPGRTWMKLETIILSK LTQEQTCKHHMFSLISG*FAEN DGFQLHPCPSIGSLLWPSAGISF FGVTGLRASDLLSLLARGCPRF LDTHISPLSSS
4625	34993	B	4666	1	2553	
4626	34994	A	4667	33	272	
4627	34995	A	4668	1	3045	
4628	34996	A	4669	1	334	
4629	34997	A	4670	159	245	FPIVASPWLLC*LMSFAGTWVK LETIILSKLSHGQKTKHRMFSLI DTVVGSDDFLLRVPGCCASS LNAAHTSVNIKLELT
4630	34998	A	4671	122	359	TANLKNRKF*PIHLTKG*YPE STKNVNKFTRKKQTPSKSGQK I*TNTSQKKTFMQPTGT*KNAH HHWSSEKCKSKP
4631	34999	A	4672	2	66	RLVYADTCFSTIKLKAEDASTS ENMRCLVFCACDSLLRMIVSSF IRVPTKDMYSSFFMAA*YLLQY HQVKSRRCFYE
4632	35000	A	4673	519	899	SALVCHTCSNWQVHLGDSVFY RSEEQPLEPLPFSYLSSLFPGLHP DPVSSGSQQPS*MPHTDASVTS SHGLGGLAGRNSCIYPCCAPAL CADYLWGSPDLFLLLSFQHKG NVGVGLAHSPQFQQGN
4633	35001	A	4674	1	278	
4634	35002	A	4675	158	592	GYYWRPSFQSLRENNECQRKS NSVNAGCLNCDHCVLGIYQQH *QNYFSFDIHYFLSETGRKVSSS I/AYFTIGETEALSGKVVPYWQQ AAGQGCTLHLLLPQTRLFPKGK RRQPGLLREF
4635	35003	A	4676	302	721	
4636	35004	B	4677	1	871	
4637	35005	B	4678	1	559	

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4638	35006	A	4679	3	2386	RVATMAPHRPAPALLCALSLAL CALSLPVRAATASRGASQAGAP QGRVPEARPNMVEHPEFLK AGKEPGLQIWRVEKFDLVPVPT NLYGDFFTGDAYVILKTVQLRN GNLQYDLHYWLGNECSQDESG AAAIFTVQLDDYLNGRAVQHR EVQGFELAPFLGYFKSG\K\Y KKGGVASGFKHV\VPNEVVVQ RLFQ\VKGRRVVRATEVPVSW SFNNG\DCFIL\DLGN\N\HQC GS\NSNRYERLKATQVS\KGIRY NERSGRA\RVHVSEEGTEPEA\M LQVLGPRIVALPAGTEDTAKED AAN\RKLA\LYKVSNGAGTM YVSLWAD\NEFTQGA\LKSED CFILDHGKDGKIFVWK\GKHAN TEERKAALKTASGFHSPRWY PKQIQVSVPFLEGG\ETPLFKQV FKNWRDPDQTDGLGLSYLSSHI ANVERVPFDAATLHTSTAMAA QHGMDDDG TGQKQIWRIEGSN KVPVDPATYGGFYGGDSYIILY NYRHGGRQGQHYNWQGAQST QDEVAASAILTAQLDEELGGTP VQSRVVQGKEPAHLMSLFGGK PMIIYKGGTSREGGQTAPASTR LFQVRANSAGATRAVEVLPKA GALNSNDAFVLKTPSAAYLWV GTGASEAEKTGAQELLRLRA QPVQVAEGSEPDGFWEALGGK AAVRTSPRLKDKKMDAHPRL
4639	35007	A	4680	1894	2161	MFGLPNARAATSTAPFASHLC LCFRJLLLLGPGINLANPRNHLV LHQKFSILGRHFSLATEEPCISL ALAPSKRWECNSSS*RYENN
4640	35008	A	4681	1	1803	
4641	35009	A	4682	1	501	MTFQCVVNTHYLTYP RPQRFL YLVVVRPSCASWIMFVLIDRGY VFSYFPQSYGGFGSRJLSKPIEV QVGGRSVVAQMWSNKGQYS DLASLGCISRYSAGSVYYPSY HHQH/NPVQVQKLQKELQRYL TR/KIGFEAVMRIRCTKAKPTRH RHYGELEISITHIRAIGK
4642	35010	A	4683	350	623	

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4643	35011	A	4684	1	3252	PPGPERSRLGLGVSLHQRSCPK CIAVFTRVSEPRIQFPASRILPSS NTSKDFDPVSGQSNYGGSQGS GQTLNRPPVASNPVTPSLHSGP APRMPLPASQNPATTPMPSSSF LPEANLPPPLNWQYNYPSTASQ TNHCPRASSQPTVSGNTSLTTN HQYVSSGYPSLQNSFIKSGPSVP PLVNPPLPTTFQPGAPHGPPAG GPPVVRALTPLTSSYRDVPQPLF NSAVNQEGITSNTNNGSMVVH SSYDEIEGGG
4644	35012	B	4685	51	236	
4645	35013	A	4686	1004	1405	
4646	35014	A	4687	1	771	
4647	35015	A	4688	1	405	SENVDDVSVMVG/TPANKALL DTTGFWDH/DFNNATPNDICVA IRSE/AADAGIAQAIMQGLEEA/ LKQQA/LDRNLNVMMFSDNVT LE/DEIQLK/TRAREKGLLV/MG PDCGTSMIAGTPLAFA/NVMPE GNIGVIGASGTGFR
4648	35016	B	4689	1	1656	
4649	35017	A	4690	1657	2259	LPQPQPATPWPSAPTFRFASPAA AMATLWSGTCRIRLWSGSSRA TRTAPAALIFPITALGSGQGAW TTRCAAGTCGRAASCSSMTSA/ AQIFSPCHCPNQDWLAVGMES NVEILHVGKPEKYQLHLHESCV LSLKFAPCGRWFVSTGKDNLL NAWRTPYGASIFQSKESSVLS CDISRNNKYIVTGSGDKKATVY EVVY

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4650	35018	A	4691	62	1371	QNQSTISVMLRSAMTTTMAAD LITAI/MGQRKQHIDTGFWHDD FNNATPNDICVAIRSEAADAGI AQAIMQQLEEALKQLAQSGSGS SQALTQVRRWDSACQKLPDAN LALISVAGEYAAELANQALDR NLNVMMFSDNVTLEDEIQLKT RAREKGLLVMGPDCGTSMIAG TPLAFANVMPEGNIGVIGASGT GIQELCSQIALAGEGITHAIGLG GRDLSREVGGISALTALEMLSA DEKSEVLAFVSKPPAEAVRLKI VNAMEKATGKPTVALFLGYTPA VARDEN/VWFGSSLDEA\SLAG CFSVRARSPLTRIDGMMILGMF GGCFAASLWANNVKLRMPRSR IRIMQAIIGGIIAGFGARLAMGC NLAAFFTGIPOFSLHAWFFANP LLIGQTLEDPEHYIDYLDKEFPL YQLVECVVSLNYSYHWECTEI
4651	35019	A	4692	1	1125	MEAEVDKLELMFQKAESDLDY IQYRLEYEIKTNHPDSASEKNPV TLLKELSVIKSQYQTLYARFKP VAVEQKETKSRIKAGMTKTMN VIQKLQKQTDLDLSPLTKEEKT AAEQFKSHSFGMWPCCLKYRQ NKKKKKKLSQNRSTTWKLNLL LLNDYWIQNEMKAEIKMFFET NENKDTTYQNLWDTFKAVCRG KFIALNAHKRKQERSKIDTLAL QLKELEEQEQTHSKASRRQEIT KIRAELEKETQKNLQKINESRS CFFEKINKMDRLLARLIKKKRE KNQIDAINKDKGGITNDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYNLPRLNQEEVESLNRPI TGSEIEARINSLPTKKSPGPDGF
4652	35020	A	4693	2	421	GRVGGRVGKIRT*LN*IETKKY KR*NETKSWFFEKIKMDRPLAR LTKKRIKEIQITSLRNETGNIITD TTEIHKIIQG*SSSSSSSSSSSSSS SS\FSSSSSSSSSSSSSDTFKRPIT GIKIEMVF*KLPTKKSRISL

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4653	35021	A	4694	1	654	MEYYAAIKNNTFMSFAATWM KLEAIIILSKLTKEQKTKRHMFSL VSTLELGALTALVRCGRWRRQ CDDEAMACVTQGRPLARLTKK RREKIQITSLRNETGDITDTTEI QKIIQGYDEHTYAHKVENLEG MDKLLEKYNPPRLNQEELGTL NRPITSYEMEMIIKKL/PNEKSP GPDGFTAIFYQTFKEELVPILLA LFHKTEKEGILPNSFYEASITL
4654	35022	A	4695	1	786	MPPSLAYKNRPQQADTQVA/T MSRGVHWRKKMQAAGPREDV KRSTQAEHTDRHQHSTRHQQL LLMRIFEMGWKKPSPFQEESEPI ALSGRDILARAKNGTGKSSAHD IPLLKRLDLKKDTIQTIVIVPTG GPALQVSQICIQVSKHMGGVK VVMTTGGTNSGDDVLRLLDDTV HMVIAAPGRILNLIKKGVAKLE ETYL RHIGRPGHFGHFGLA INLI TYGDHFNKLGIEEQLGKEIKPIP SNIDKSLHVAEFHSKAVENEKP
4655	35023	B	4696	1	501	
4656	35024	A	4697	2	573	YSACFFLFSIAMGILLTVPPSFWI PTSFS AFLGFFSSFSLLVLHQPD FSFVLGLWRIISLLVLKIVEGSS NQGMQMASRSWEWPSSSRKM ATSVRTLPEP/GPSGCRAPSAFPF RKEAGADPSGCPGGRQVPLVAI GRGGALEPQRWELRAPGSAGR LPREGGRTFPGAQSPAQAQSPA GKQSPPGAQSPLH
4657	35025	A	4698	2	346	PPINISVPHC*PFGG/EPLEILIPAP ERSSHVLSQSPVRTHSSAVHQ VGASLNC GDKQPPNFSGSKIFF LIYLHLMTGQVRGSSVLCHPNT GIQKEGGTVNEIPIAIEKRKKHA
4658	35026	B	4699	1	468	
4659	35027	A	4700	2	284	ETGEFTQLKELNIQGNCWTL PELGNYLTGQKKVCKVENS WVTPIAGQFQLDVSCVSECVC ETYEYLYGQHMQANPEPPKH NNHKS GDK
4660	35028	A	4701	5	189	
4661	35029	A	4702	38	190	

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4662	35030	A	4703	2	882	WPSVSSG/PSSAVSFSSFDPGVA SCTSSASGIQRPMASEVPCASG IPIKKIGHRGVDSSGETTYRKT SSALKCAIQLCITHTVGSLDPTP ERHVLIEPLIELSSSGADGSLH VSIHDEFIIKTVQHKQAEFLQKL IPGYHIDLNQNSWTLLPKFYGL CCVKAGGKNTQIAVMKNLLLR LNSEGERILLCIGITDILQSYRFV KKLEHSWKALVCDGDTVSVHR PGFYTERFQCFMCNTAFKKIPA RTLTPNAGKDVEQQELSSLLM GMRSGTATVEDSLVVS YKTKH
4663	35031	A	4704	2	410	
4664	35032	A	4705	2	728	
4665	35033	A	4706	1	1208	MKMEKVNTSWLLPPSSISVLIR RGAGSMVLLLQSQRQYIFEYDS SDRLLAVTMPVARHSMSTHTS IGYIRNIYNPPESNASVIFDYSD DGRILKTSFLGTGRQVFYKYGK LSKLSEIVYDSTAVTFGYDETT GVLKMVNLQSGGFCTIRYRKI GPLVDKQIYRFSEEGMVNARFD YTYHDNSFRIASIKPVISETPLPV DLYRYDEISGKVEHFIITTAEM TLSKHFDTHGRIKEVLA/YEMF RSLMYWMTVQYDSMGRVIKR ELKLGPYANTTKYTYDYDGDG QLQSVACNDRPTWRYSYELNG NLHLLNPGNSVRLMPLRYDLR DRITRLGDVQY/KIDDDGYLCQ RGSDIFEYNFNGAPTKTLSQAS GILQSLQGLHEVHRNPACSDFA
4666	35034	A	4707	1	663	MMLLLLALLGAGLLGASLLTS WHAPARNKIPRAQKWREEDL DPKPILELPLAELAQQLRTEELS LESILCSYLKQALKVHQEVNCL MDFLGECEELQALKKLLKSE RGLLYGVPMSLKDTYDSMFLE KPATKDGVMKVLKAQGAIPFV KTNIPLTLRLSLKRASWALNAA TPIYGQMLSPLNLKKTGCGSS/G GDHGGWPHGPGRGEPAVPCK

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4667	35035	A	4708	2	624	SDARLHKDDTDICFSKTLNSCK VPQIRYASVERLLERLTDLRFLS IDFLNTFLHTYRIFTTAAVVLGK LSDIYKRPFTSIPVRRARKLSLT SPLNSKIGALDLTTSSSPTTTTQ SPAASPPPHGTGQIPLDLRGLSS PEQSPGTQPEVSGSSPHSTAQSK IWSLVWKQYWLMAPSHALKT CHAARLARTFVTSSSATKVHCA ISLK
4668	35036	A	4709	1	195	
4669	35037	A	4710	1	1845	MAEAEPRPGERGGGGAGRAG GRPGGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGKIDGLTVHLV IKTPQKAQDPAAATASSPSTPDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRSSGGGSPSGTGE GSPSATASILSGFGGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLRNP/WSPSPPTSQAPG SGGEGTGGSGTSQPGSGMFNS PEMQALLQQISENPQLMQNVIS APYMRSMMQTLAQNPDFAAQ MMVNVPLFAGNPQLQEQLRLQ LPVFLQQMQNPESLSILTNPRA MQALLQIQQLQLQTEAPGL VPSLVSGMSRTPAPSAGSNAG STPEAPTSSPATPATSSPTGASST QQQLMQQMIQLLAGSGNSQVQ TSEVRFQQLEQLNSMGFINRE ANLQALIAATGGDINAAIERLLGS
4670	35038	C	4711	59	464	

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4671	35039	A	4712	1	1902	MAEAEPRPGERGGGGAGRAG GRPGGGGGMAEPSGAETRPPIR VTVKTPKDKEEIVICDRASVKE FKEEISRRFKAQQDQLVLILSGK ILKDGDTLNQHGIKDGLTVHLV IKTPQKAQDPAAATASSPSTDP ASAPSTTPASPTTPTQPSTSDSA SSDAGSGSRRSSGGGSPSGTGE GSPSATASILSGFGGILGLGSLG LGSANFMELQQQMQRQLMSNP EMLLQIMENPLVQDMMSNPDL MRHMIIAKPQMQLMERNPEIS HMLNPNPELMRQTMELARNPAV MQEMMRNQDRALSNLESIPGG YNALRRMYTDIQEPMFSAARE QFGNNPFSSLAGNSDSSSSQPLR TENREPLPNPWSPSPPTSQAPGS GGEGTGCSTGTSQVHPTVLNPF INAASLRSGMFNSPEMQALLQQ ISENPQLMQNVISAPYMRSMM QTLAQNPDFAAQMMVNVPLFA G\NPQLQEQLRLQLPVFLQQMQ NPESLSILTNPAMQALLQIQQ GLQTLQTEAPGLVPSLVSGMS RTPAPSAGSNAGVYPPRPPLPHP ATPSHIFSNRG/SPAPQQQLMQQ MIQLLAGSGNSQVQTPEVRFQ QQLEQLNSMGFINREANLQALI ATGGDINAAIERLLGSQLS
4672	35040	B	4713	309	527	

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4673	35041	A	4714	1111	2506	KKDQRETRNQKGLGFLDRPQ WVSGKMKQECLQ/HWNAMAI NNHRAVAIFPKRRHGREDGLLS NLPTFGSYAPLRRVSNEFIASAV QRILLERRALPHGNCKLGGLTP QFMNRKNALVLEVLARAIQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKDLFKENYKPLLNEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTTLKFIWNQKRARIASILS QKNKAGGITLPDFKLHYKATV TKTAWYWFQNTDIDQWNRTEP SEIMPHIYNYLIFDNPEKNKQW GTDFLFNKWCWENWLAICRKL KLDPFLTPYTKIKSRWIKDINVR PKTIKALEENLGNTIQDIGMGK DFMSETPKAMTTKV KIDKWDL IKLKSF
4674	35042	A	4715	3	372	SVGVALRPWKRE/RAASERRSS SGGGGGGGGGGGGGGGGGSGS GQ/HAPAAPAGGIEAVNMASS YHISNLLGVAAAAALAVTQALP PPSAVAGSFSAPKSPAHRSA GLPIPAEPLSSPLLQPPPP
4675	35043	A	4716	1	1008	
4676	35044	A	4717	1	2619	
4677	35045	A	4718	449	801	VLLLSSMSRRKCQSLYVDLLM KKETE*SMEKEKLTMHPLSCTH I*PRPQAPEADKQMRR*TEEQN CRMMWQKKEKEHLNAKRSLA GSGWRDQPLDGKAPGEDHLP IPSPFQLPIHPI
4678	35046	A	4719	1	1255	
4679	35047	A	4720	2	843	CLHGFYRIRDSELOKIHRAAV KGDAAGVERCLARRSGDLDAL NK/TAQIAGAQPREEACTVILLE HGTNPNLKDIYRNTALHYAVY SESTSLAEKLFHFGANIEALDK VLSISFLSKILMSSLKTCGRDAE DYTISHHLTKIQQQILERKKKIL KKEKRGKASESEFLNSLGGPTL DKKIRNVEISDES AVSILHEL CV DSL PALDDEVLSVATKCVPEKV SEPLCRPSHEKGNRIVNGKGE GSEECLCPAAHRLRCGERLYLPP RLGCERLCLATTPSEK
4680	35048	A	4721	295	1050	

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4681	35049	B	4722	306	554	
4682	35050	A	4723	2	7973	
4683	35051	A	4724	2	316	
4684	35052	A	4725	81	228	DPPLCLGLL\LHRASIVQKRIYF QDEGSLTKKLCEQGKTLKHSQ QMFFK
4685	35053	A	4726	1	1043	MELEWKVNVKVN SQDTNHHG SLQLARGEAAAVKFRMSKKQ RDSLYAEVQKHQQRLQEQRQQ QSGEAEALARVYSSISNGLSN LNNETSGTYANGHVIDLPKSEG YYNVDSGQSPDQSGLDMTGI KQIKQEPYDLTSV PNLFTY\SSF NN\GQLAPGITMTEIEIVAAEF PLIYKQSFLT VLSFGGGGSVIC GPTFAKVSSRRFIHHGDKIQPS INALGWT FMEETPQIFKCRNT HGKELEHDLPEHSSGQGSTRRK SSCLRRDNNPMLLSGGRFYEKI HNFITGTFDVRKMEHAEGKTS LVHVG FQAIKMPSSLKQEASNG LIKLEEASGARMKTGHIK
4686	35054	A	4727	467	584	
4687	35055	A	4728	1	1794	
4688	35056	A	4729	110	1797	PSQQEPGSGTSC LRYCWTAQTL PSVTMKLWVSALLMAWFGVLS CVQAEFFTSIGHMTDLIYAEKE LVQSLKEYILVEEAKLSKIKSW ANKMEALTSKSAADAEGYLAH PVNAYKL VKRLNTDWP AEDL VLQDSAAGFIANLSVQRQFFPT DEDEIGA AAKALMRLQD TYRLD PGTISRGE LPGTKYQAMLSVDD CFGMGRSAYNEG DYHTVLW MEQVLKQLDAGEEATTTKSQV LDYLSYAVFQLGDLHRALELTR R\LLSLDPSHERAGGN/LCRYFE QLLEEEREKTLTNQTEA\ELTTP EGIYERPVDYLP ERDVYESLCR GEGVKLT PRRQKRLFCRYHHG NRAPQLLIAPFKEEDEWDS PHI VRYVDVMSDEEIERIKEIAKPK LARATVRDPKTGVLT VASYRV SKSSWLEEDDDPVVARVNRRM QHITGLTVKTAELLQVANYGV GGQYEPHFDFSRNDERDTFKHL GTGNRVATFLNYMSDVEAGGA TVFPDLGAAIWPKKGTA VFWY NLLRSGEGDYRTRHAACPV LV GCKWVSNKWFHERGQEFLRPC
4689	35057	B	4730	1	2433	

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4690	35058	A	4731	425	1079	PMGTSFLYECANFQSVSLGDPQ EPSCLCGGQPQGAAGGSSGSED ALLCLWDLQARKWKFMSYTS GNIRGSSFCQFKSSFLVYFKALL KFRELFAQFKSFMGEKKLSLAP PMSDSSGDGIIRKIDYASCKRSG SSIRALPKTYQQP/EVLNDTWV SFPSWSEDSTFVSSKKTYPYEEQL HRCEDERFEEMKTAGFASFGER SKTGVPNLRVTDWYRLVAC
4691	35059	A	4732	3	425	GASSEEAEGASEGPIGAPGGWG APGSQGAQEGGDLQEAESQE GGDPKPRSPRKVERHRKAGA PGRDLGRPSLTVLL\NHCVLQR LRKIYHSSIKPLEQSYKYNELRQ HEITGQRCPCCEEPKPQHqERA LFVVVSENrNI
4692	35060	B	4733	1	1056	
4693	35061	A	4734	171	511	LLSVRHVVRNTQETANDVQVW /LDREGGSKI\NTGVCFLDHMLD QIATAVSRME\INVKGDLYIDD HHTV\EDTGL\ALGEALKIAPGD KPGICRFGFVLP\MDDECLACAL DISGGPH
4694	35062	A	4735	563	763	
4695	35063	A	4736	365	1644	RTSQMSSSAWRQQRARPSSAI LPSSLSLGHLPALPQFSQRMPAT ASQLPGMVGVLGYGQTAASP GSVSSCSPACSSCCLGCWWPSS WPSCRLHPLHGRPIAHCLPE/VL TTTTTTPTITTSQAAGTPKGQQE SGVSPSPQSTCGLLSGPRGFFS SPNYPDYPNTHCVWHIQVAT DHAIQLKIEALSIESVASCLFDR LELSPEPEGPLLRVCGRVPPPTL NTNASHLLVVFVSDSSVEGFGF HAWYQAMAPGRGSCAHDEFR CDQLICLLPDSVCDGFANCADG SDETNSAKFSGCGGNLTGLQG TFSTPSYLQQYPHQLLCTWHIS VPAGHSIELQFHNFSLEAQDEC KFDYVEVYETSSSGAFSLLGRF CGAEPPLVSSHHELAVLFRT DHGISSGGFSATYLAFNATERL CLVESTSS
4696	35064	A	4737	1	154	

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4697	35065	A	4738	1	700	GSRPQFPFGHTRVRASGWRPCSL KPQLLGVPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGHPETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AEIKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDFGA DAQGAMKQGPSCFRKDNWP PTYKELGLSRAKPLAGFPTPNPS WAPGFKRERGLISV
4698	35066	A	4739	1	154	
4699	35067	A	4740	1	617	GSRPQFPFGHTRVRASGWRPCSL KPQLLGVPVHPVSPYLLFLSSSDC AMGLIDGEWQLVLNVWGKVE ADIPGHGQEVLRIRLFKGHPETLE KFDKFKHLKSEDEMKASEDLK KHGATVLTALGGILKKKGHHE AEIKPRGTVSNATKHKIPVKVT WRSSPECIIQVLQSKHPGDFGA DAQGAMNKALELFRKDNMAS NYKELGFQG
4700	35068	C	4741	46	522	
4701	35069	A	4742	78	617	TKELLHSKRNCHQSEQATYKM GENFCNLLI*QSANIQNLQRT*T NLQEKNKQPHQKVGEQYEQTL LNRRSLCSQKTHEKILITGHQR NANQNHNEIPSHTS*NGNH*KV RKQQVSYKLL*MRPRTRQVT Q*RREPETSLAKETPGNPTNTN AKFKTRGARISHYSSGNGERLP RTVC
4702	35070	B	4743	1	6477	
4703	35071	A	4744	1	623	MSSDISEVEDKNEFLTEQLSKP QIKFNTLKDKFLKTRDTLARKKS LALETVHNNLSQTQQQIKEMK EMYENAEAKENNSTGKWSCVE ERICQLQHENPCIEQQLDDVHQ KECLPSRKEKFKSEPPAFLSGN QVKSSSSCSLQTLFPPDDLILYLE NPKDSTKKLLELINKFRVTGYK IKLQKSVAFLNDKNEQSKEENQ ECNPIYNNYK
4704	35072	A	4745	2	3272	
4705	35073	A	4746	1	579	
4706	35074	A	4747	3	510	

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4707	35075	A	4748	1	1261	MEAVDTFLVFNALNFLTSQTT GCSSSCDPGHGLGQSGNRFPI AAASARTAEEAKWFFSNKDYS NVLQLPDPKKTEYHIHEKRFS SRILCYYPEFGKVEEILTAMKH DWFGKHRKDDKIEKTGKIKIQE SFTSEERIRMKQEQUERIQAKTR EFREVRQARERDYAEIQDFHRTF GCDEL MYGGVSSYEGSMALN ARPQSPREGHMMDALYAQVK KPRNSKPSPVDSKGKVLGEADP VYPRRNP GTEGNASSLPSVSFSE SPPVRAAFAGYHYVAF PWLQK LMSGTSGKDPEKEADLARVVT LRVVTLRIETHVKTLAFTAALL QQLACIDVGMDKQNDVYTYN KILLSFKRKEILTHTTTMSLED IILSEINQWQEDKYRFGLYEVA QVVKLIETESKVVVSRDGGRG
4708	35076	A	4749	10	2051	
4709	35077	A	4750	2	2118	
4710	35078	A	4751	1	658	MWNSKTLAAFRPCPKDPLNFE LERDNLAYLAEEIPKQSQSIQYIT WMILKAFSHMHLQRDNLKLEL MFKRKAKHKGLKNLHPDHVIE KKNLFSAEKFKPAAEIYISNEEP NVNSQDNGKKCLQGMSEIFAA APAITDNTSDKTTLIKVSSWPYI ADRRCP LVNVTREDSPSEDPVF LRTLKGKGDWFGKALQGWGL\ KGIHHVSAQEPVCLLLPFMTPR
4711	35079	B	4752	1	471	
4712	35080	A	4753	315	407	
4713	35081	A	4754	411	1042	
4714	35082	A	4755	1	423	
4715	35083	C	4756	202	321	
4716	35084	A	4757	5	413	CFFFFFFETESHFVTQAGVQWR DLGSLQSPPPGFTPF/SPQPPKE PGPQAPATTPGQSFAFLVEMGF HHVSQEV SIS*PRDPPASASQS AGTTGVSHRAWTFCLRQSLA LSPDWSA VARSQLTATSASVW QVSRR
4717	35085	C	4758	150	491	

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4718	35086	A	4759	1	548	GIAFCLNLIKTLKLPNFKSCVIL LGLLLLYDV/FFVFITPFITKNGE SIMVELAAGPFGNNEKNDGNL VEATGQPSAPHEKLPVVIRVPK LIYFSVMSVCLMPVSILGFGDII VPGLLIA YCRRFDVQTGSSYIY YVSSTVAYAIGMILTFVVLVLM KKGQPALLYLPCTLITASVVA
4719	35087	B	4760	642	1985	
4720	35088	A	4761	39	252	
4721	35089	A	4762	1	783	
4722	35090	C	4763	218	358	
4723	35091	B	4764	372	374	
4724	35092	B	4765	129	1036	
4725	35093	A	4766	1211	1983	SQSCLLLQEDFAPIAGEQEAEQ HQEDLRALLRASLQGQCSRQP GTRLHGSAPWPGEAQNRSRPLP GDSPSLDRYRGI/SDAVGKSRSG DIGSSLRVEAGDKRTQASPERQ PHCGAHDAQDISGGREIFKPRQ LPGSAIWSIKVGHGSGFPGKRR PRGAGLSGRGGRGRSKLKSIG AVVLPGVSTADISSNKDDEENS VLDMMVVLFSSSDKFTLN/QVCG SFGQGAEGRLLACSQCGQCYH PYCVSIKMDACSSSELKY
4726	35094	A	4767	1	603	MANFNDCVLDKEKVCIAAKFIT HAPAGEFNEVFSDIRLLCNND LLRERAARAFAHYNMDQFTPV KMEGCEDQTIIACIESHECQPKN FWNGRWRSEWKFTITPPTAQV VGVLKIQVHYEDGSVQLVSH KDVQDSLTVSNDAAQTAKFIKII ENAENEYQTAISENCQTMSDIT FKVLRRLPVTTRTKIDWNKILS YNI
4727	35095	A	4768	1	867	MADFDDRVSDEEKVRIAANKFIT HAPPGEFNEVFNDVRLLLNND NLLREGAAHAFAQYNMDQFH AVKIEGYEDQVLITEHG\DLGN SRVLDPRNKISFKFDHLRKEAS DPQPEEADGGLKSWRESCDSA LRA YVKDHYSNGFCTVYAKTI DGQQTIIACIESHQFQPKNFWN GR\WRSEWKVPITPPSAQIVVG VLKIQVHYEDGNVQLVSHKD VQDSLTVSNEAQTAKFIKIIIE NAENEYQTAICGNYQTMSDIT FKALRRQLPVTTRTKIDWNKILS YKIGKEMQNA

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4728	35096	A	4769	2	690	WPSGSASRPRHLRAPEPVIGKA GKNKGAGLTPA/AGTSGCAGR AESRGPPTGSHGSEPSRGSKGL CGRGTRSLPERGAEVLPHLPAQ TSPQLGSQGAWP/RHPRKPFRP AARAGTQPPGFVPSTPALLKVL YRSAHTQHSGRAAPEPSRLALG PTLQQKRHMGHRRNLTFSTY NKKCGFGWAVEMRFSALLDVT TTPSRVAFWGSRGPPGLGMERQL QLLSGYSPDGWLSTSM
4729	35097	A	4770	1	590	MDTRIGTTDTGTGKVEGAR MRLKKLPIEYYAYYLDDEICTS NPCEFPGYGIEREYPCETSGPLE LTVQEDQGEEPQREELTRKKT KVCRGSP LAWATGVKPCLK RRRRKEERRKKKEEGEGEGEEE EEEEEEEEEEEEEEEEEEEE EE/EEEEEEEEEEEEEEEE EEEEESDPCTSWNTSQP
4730	35098	A	4771	1	288	
4731	35099	A	4772	1	237	MRSSVIGPRSHIPSRKSGIQEE EEEEEQEEEEEEEE/EEEEEE EEEEEEEEKGLLDQEAARHLV LPAATQCKPKM
4732	35100	A	4773	1	794	MASHSSPMGSQYYYGFPGPDS AMHALNTVVSEKDLTDLGL VARNKRCGPHSYSLNTHLLHA CLRLPTQRENTTLKTFIPQGWEI HTDQVEREAECQPGRLLKICVHD TAQELPLASTARNALLGRNLCP FRQSSTTQMPDEIPISLDDMRP PSLKKKK/VVGEEEEEEEEKEK EEEEEE/DEEEEEEEEEEEEE EEEEEEEEEGGGGVGEEEE EEGEGEGGGGEDEEE*EEEE EQKKKEKKKKEQEGGEGG
4733	35101	A	4774	115	341	
4734	35102	A	4775	1	651	
4735	35103	A	4776	189	618	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISFHH EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEDLLYNFI YIIFSKMPTKVPSLWDSKLGAE QAAPEENNKKEQEEYQGKSF SFLNLTECWP
4736	35104	A	4777	1	414	

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4737	35105	A	4778	189	692	SLCHKEAEGGHGKAHVEGKRA PSNLQPSAPAELSGNNSISFVHHE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEDLLYNF IYIIFSKMPTKAMSISSMFKFAT KIRMTVTPNPKCCWIPVFPAYL STSKAAKCMHHTAHHGQEKSD HCISPSPIAP
4738	35106	A	4779	2	3815	
4739	35107	A	4780	957	1493	KNRNYNKLRLRQCNPTRTQD* ETHSKPLNYMETEQSP*LLG T*RNEGRHKAVL*NQ*EKRHNI PESLGH/ AKQCVEGNL*H*MPT RESRKDLKLT*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRIEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKTNKEEKREESNRRN KKC
4740	35108	A	4781	1	4962	
4741	35109	A	4782	2421	3011	NQACQPGQAGAARAGQCFPRV AQRPGPGPAGMALAHPDLYLC HSAGDQCR*DEEADPPEGQAPT HFQVHPAGGLHLLDRLAAPQH QAGTQGGQGPGRHH*PAARSS PVEPPSTGSPSRPTTTMWPSCSR RQGGGLGPG*CVQQPHLLDAP GTLPLVGLALVCRLQPWRCLPL GGGGGVGGGSRPPGGGGGNG GRNWG
4742	35110	A	4783	1	932	MRTPKSSIKPSLGEEKENYRGS LKETAPSLQKEWAEQSSKSQET VGVGITRHFQVSTLLERREDR KSKEPPLLIPRQTVSGVDLQQT TDLQLSVLTVRRKTNKQKGHP HQPICSTSPSSNTKVKNLEKQL DEWLTRITNAEKSSKDRMELKT KARELHDECTSLSSRCDQLEER VSVTEDEMNMKRGKFRKREK IKRNEQSLQEIWDYVKRPNLCL IGVPESDGENGTKLENTLQDIIQ ENFPNLARQANIQEI/RENAT KILLEKSNSKTHNCQIHQS*NEG KNVKGSQRERSGYPPQREAHQT
4743	35111	A	4784	477	638	LLCCGFELPLLARRSLIV*SLLLS THQSHSPSSFVPLLVRSCIPLEEE RRSDF
4744	35112	B	4785	1	1509	

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4745	35113	A	4786	3	832	ERHHPPPQAGPHPPRRRKERN HRQPTPQPHGA/WKISVPQTTN KGISSITSTQRNQPQATTVEKA HNESTRTPPEPKGAVRGR*KK KKTSRDTPPQTP*EKSSSATRNK AGGKDS DKRERKATEDQTTPS KRRKLHPMAKKLKLKKN*MN G*LE*PMQRSP*RT*WS*KPRHE NYVMNAQASVTDAINWKKGPP PRPTTNDAKIVTRPTHPTCSHH RPPRKPPRTHPTPTPTQNKISQ* NGYTPPRGKRVREDRCKPPQAP TSAPRAAKQRQS
4746	35114	B	4787	1580	4673	
4747	35115	A	4788	1	462	MKLEHQEAQRRSGQGREKRR WPEGKAGPGCEGAWILCPESQ DDSKQEGDNNMIVSRNAVRS VKAEFQGDNLNESCSEAIIV QGRDNGVPHKAHGLGTEEEGT VLKISERQNWLDLVDFILLGCD LFHENKPSRKLHTCLELLRKY CMGDRPVQFEILSDQSVNFGFR KLTNRKDIHTKNPSVRHHHQR KVDETIKMGKTQSRKTRNSKN QSTSPPKERSSSPAIEQSWMEN DFDELKEEGFRRSNYSELKEEV RTNGKEVKNLEKKLDKWITRIT NAEKSLKDLMEKLTIAQELRDE CTSLNQCDQLEERVSVMEDQ MNEMKREEKFREKRIKRNEQS LQEIWDYVKRPNLCLIGVPESD GENGTKLENTLQDIIQVNFNL ARQANIQIEIQRMPPQRYSLRR ETPRHIIVRFTKVEMKEKMLRT AREKGLECSGAGLAHCKLWLL GPSDPPDCSSVSPVLRVHLVLPS SLPHSVGTPLGVSIPPSVPRFP DRVFHPPYPTHYCDNLKTCHT SHGSVMAETA VINHKRKNNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLCQY

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4748	35116	A	4789	1314	2221	KNRNYNKLRLPQCNPTRTQD* ETHSKPLNYMETEQSPPE*LLG T*RNAEGRHKAVL*NQ*EKRHNI PESLGH/IAKQCVEGNL*H*MPT RESRKDLKLT*/PSQLKELEKQ EQTHSKAGRRQE/TN*DQSRJEG DRDTKNPSKNQ*IQELVF*KDQ QN**TASKT/IQRRKERRIK*TQ* KMLKEDITDPTTEIKTIIREYYK HLYAHNLENLEEMDKFLDTYT LPRLNQEEAESLNRPTNSEIET VINSLKEKAQDQKDLQNLNSTR LFTIAKAWNQPKCPSMTDEIK/I NVEHIIHHGILCSHQKE
4749	35117	A	4790	2	2260	TKDKNHMIISIDGGKAFDKIQQ PFMLKTLNKLIGDGYLKRIRAI FDKPTANIILNGQKLEAFPLKTG TRQGCPLSPLFNIVLEVLRVI RQEKEIKGIQFGKEEVKLSLFA DDMTVYLENPIFSAQNLLKLIS NFSNVSGYKINVQKSQAFLYTN NSQIMSELPFTIATKRITYLGIQL ARDVKDLFKENYKPLLNEIKED TNKWKNIPCSQIGRILWPYCPR QEDENFNLSLLQNGDILNSSTEE KFKAHDKKDFNLPEYDLNVEE RLVLIIEKSVSTATADDTKLD HINMNLNKLITNDTFQPEIMERS KTQDIVLGTSFLSINSKEETHEL ENGKNYPNLESVNKVNGHSEE TSQSPNRTEPHDSDCSVDLGISK STEDLSPQKSGPVGSVVKSHSIT NMEIGGLKIYDILSDNGPQQPST TVKITSADVKGKNIVRSKSATLL YDQPLQVFTGSSSSDLISGTKA IFKFDSNHNPEEPNIIRGPTSGPQ SAPQIIYGPPQYNIQYSSSAVK DTLWHSKQNPQIDHASFPQQLL PRSESTENQSYAKHSANMNFSN HNNVRANTAYHLHQRLGPARH GEMWAISPNDRLIPAVTRSTIQR QSSVSSTASVNLGDPGSTRRAQ IPEGDYLSYREFHSAGRTPPM PGSQRPLSARTYSIDGPNASRPQ SARPSINEIPERTMSVSDFNYSR TSPSKRPNARVGSEHSLDPPG
4750	35118	A	4791	1516	1729	ILAPHSLACRVSAERSAVSPM GFPLWVTQPFSLAALN/DFFLHF NFG/RI*QLCVLELLFSRSIVVAF SEFP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in U.S.S.N. 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4751	35119	A	4792	3	1426	RRYDELQNSSGRDGKPRAMAV TRSTSSTSSGSNSNVLPVSWK RPQYSQKRAKEKLVHVLSCG QEVGLSKNPVSIFSSCGDLDLLE HQTSLVSSSEDGAREQENMDDT NSEQQFRVFRDFDFLDVELEDG EELQGESMDNFNWGVRRRSLD SLDKCDMQILEERQLSGSTPSL NKMHHEDFDESSEEDLTASQI LEHSDLIMTLPSEETNPMELLT TACDSTPPEPHSFNTRMSSFDAS LPDMNNLQISEGSKAEAVREE EDTTVHEDDLSSSINELPAAFEC SDSFSLDMTEGEEKGNRALDQF TLASFGEGDRGVSPPPSPFFSAI LAAFQPAACDDAEAAWRSHIN QLMCDSDGSCAVYTFHVFSOLF KNIQKRFCFLTCDAAASYLGDNL RGIGSKFVSSQMLTSCSLDKL KFSVLELQEYLDTYNNRKEATL SWLANCKATFAGGSRDGVITC QPGDSEEKVIKAC
4752	35120	C	4793	60	164	
4753	35121	B	4794	44	2547	
4754	35122	A	4795	401	9546	PRADITTCDRRITPGTCSRPLPV LPASLYAADMASQQDSGFFEISI KYLLKSWNTSPVGNNGYIKPPV PPASGTHREKGPPTMLPINVDP DSKPGEYVLKSLFVNFTTQAER KIRIIMAEPLKPLTKSLQRGED PQFDQVISSMSSLSEYCLPSILRT LFDWYKRQNGIEDESHEYRPRT SNKSKSDEQQRDYLMEERDLAI DFIFSLVLEVLKQIPLHPVIDSLI HDVINLAFKHFYKEGYLGPNT GNMHI
4755	35123	A	4796	2	6107	GERKPKIDLFRTCVAAIPRLLPD GMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRED VLFGFTNLLREVNDMHHTLL DSSLKLLLQLLTQWKLVIQTQG KVYEQANKIRNSEARDLELDV GVDVDVGVDVDADVDVDVDL GVDVDVGVDVDADVDVDVD MGVDVDVDRIYGFCKCGCDR DVDRVVDVDVIDVDVDVDM DVNIDVDVGLGAGVDVMDV HIDMDMDVDIGSDNILQSALRR

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4756	35124	A	4797	3	565	MLPGHLFCLAKAGKEEQEEKG QIITRKTITPQNIPGPGAHITATH RGRCTVATKFSGLCKEPNRLT WY/GPPLKGAHGGR/GPSSRVPS FPAAGQPPIGGALHGAGSRGLA RTRAQLGGPPGGELRGT/SGNG DGQGPDGDSRKSGLRPSHL/P DPAAVAGAPVSGHLQTPGHHHA GRRQQAGPRGAGLP
4757	35125	A	4798	1	417	
4758	35126	A	4799	1	1069	MPRPPVPANALGARGEAVRLQ LQGEELRLQEVSVRLHQINIYL SDRISLHRRLPVRWNPLCKEKK YDYDNLPRTSVTKAFYNEAWS TLLRTVYSVLETSPDILLEEVIL VDDYSDREHLKERLANELSGLP KVRLIRANKREGILVRARLLGA SAARGDVLTFLDCHCEHEGW LEPLLQRIHEEESAVVCPVTDVI DWNTFEYLGNSGEPQIGGFDW RLVFRWHTVPERERIRMQSPV DVIRSPTMAGGLFAVSKKYFEY LGSYDTGMEVWGGENLEFSFRI WQCGGVLETHPCSHVGHVFPK QAPYSRNKALANSVRAAEVW MDEFKELYHRNPRARLGLAC DECSIKAGWWL
4759	35127	A	4800	1	1152	MHNSDGIEMRQKAEIGRVG GLEGIQLGVTEVIVNGARMLES YNCKAELGATGLVNYQISVKC SNQFKLEVYLLNAENKVVDNQ AGTQGQLKVLGTNLWWPYLM HEHPAYLYSWEGRPDGAQAVG ALTPGTLA\EVWLTAQKSLGP/ SDFYTLVPGLRTVAVTESQFLIS GKPFYFHGVNKHEDADIQGGK FNWPLLVKDFNLLCWLGANTF CTSHYPYTEMLQICYRYGIVVI DECPAPSGHTGPSVPSLLARW QLFNNSMHHHMWVVEEPVL RDKNHPAMVMWSLAKEPASFL ESAGYSFKSLTMEQTARVLDLD TGEAVLQYRSLPRGAHKTLGK KRKISSYNVDLTSCQLAKEKCL KGPSSFLQSRQERMNSELRDN
4760	35128	A	4801	293	535	
4761	35129	A	4802	94	686	
4762	35130	B	4803	1	2187	

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4763	35131	A	4804	596	1789	MFHVIERPYECKECGKNFRSGY QLTLHQRFHGTGIHKGGKPYEC KECKKTFTLYRNLTRHQNIHTG EKLFECKQCGKTYTTGSKLFQH QKTHTEKPYECKECGKAFFSL YGYLKQHQIHTGMKHFECKE CKKTFTLYRNLTRHQNIHTGKK LFECQECGKAYSTGSNLIQHRK THTGEKPYKCECKGTFSLHG YLNQHQKIHTGVKPYECKKIHT GGKPYECKECGKAFFSRASNLV QHRIHTGEKPYVCKQCGKTFR YGSALKAHQRIHRSIKVNQWL DSPRHKSINCDPMSPRTRKTRE RSHVSGRSLCQRLGQGAQLRE FKQPPRNRFRVCGLVARNTPF RGLRGRRASRRNAAASRLEDA VAELLKARCSALGGSGLPEGLS
4764	35132	A	4805	2	489	CQGECAKWEQGMTGRRWVVG PPASSTPPHS/HFWLLVLSRGLV GIGEASYSTIAPTIIGDLFTKNTR TLMLSVFYFAIPLGSGLGYYTGS SVKQAAGDWHCALRESFLQLV RLLKVTHLLQQLQLLYPTNGK RQDTNHTRSQCAHYLPHLDFQ VALCAYAVLQC
4765	35133	A	4806	1	327	
4766	35134	A	4807	899	1219	ANRKASTMRWYVRPFCGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCIS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS
4767	35135	A	4808	2152	2633	SRLDCGQGLVNGSCDYHHGCT GDTPRRPEWHRSLAHCMSVPD SLPGCAVSGSSDPWEVSWLWQ Q/VDRCDNREE/VMW*QRLGFP SPTVSFPQRAVSASKPLQ*APS WISLHSTLSQCRASDLRGRHTV PEVVYEWSPCALPTHREHPNAI MEGWPPPQAWWA
4768	35136	A	4809	2	387	SNASVILEGEDLRFCSVRMAG RLQGRFSVIWQLVDRQNRSDI MWLDR\DGTVQPGSSYWERSSF GSVQMEQVQPNFSLSLGFNSRK EDEGQYEVTEWVRVVDGE WQIVGERRASTPISIALGE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4769	35137	A	4810	46	3753	EIRSWEKRRKRLVLCLEAADM KCFFPVLSCLAVLGVVSAQRQV TVQEGPLYRTEGSHITIWCNVS GYQGPSEQNFQWSIYLPSSPER EVQIVSTMDSSFPYAIYTQRVR GGKIFIERVQGNSTLLHITDLQA RDAGEYECHTPSTDKQYFGSYS AKMNLVVIPDSLQTTAMPQTL HRVEQDPLELTCEVASETIQHS HLSVAWLRQKVGEKPVEVISLS RDFMLHSSEYAQRQSLGEVRL DKLGRTTFRLTIFH
4770	35138	A	4811	1	3728	MKCFPPVLSCLAVLGVVSAQR QVTVQEGPLYRTEGSHITIWCN VSGYQGPSEQNFQWSIYLPSSP EREVQIVSTMDSSFPYAIYTQR VRGGKIFIERVQGNSTLLHITDL QARDAGEYECHTPSTDKQYFG SYSAKMNLVVIPDSLQTTAMPQ TLHRVEQDPLELTCEVASETIQ HSHLSVAWLRQKVGEKPVEVIS LSRDFMLHSSEYAQRQSLGEV RLDKLGRTTFRLTIFHLQPSDQ GEFYCEAAEWIQDP
4771	35139	A	4812	897	1217	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCSISS AR*LFRSSAVTMPPAAWMSFTI WAVRLPL*KAWAPSMASVS

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4772	35140	A	4813	1	1507	MWNSKINHDDHDDQFLKTYVLE ESSISVGVASNASVILEGDDLRF SCSVRMAGRPPQGRFSVWQLV DRQNCRSNIMWLDRDGTVPQPG SSYWERSFSGSVQMEQVQPNFS SLGIFNSRKEDEGQYECHVTEW VRVVDGEWQIVGERRASTPISII ALEMGFAVTAISRTPGVITYSDS FDLQCIKPHYPAQVPVSVTWR FQPVGTVEFHDLVTFTRDGGV QWGDRSSSFRTRTATEKAESSN NVRLLISRASDTEAGKYQCVAE LWWKNYNNTWTQLAERTSNL LVIRVLQPD RMGV SARALRGEP SPSQMPQACCHGNTGALVIGIN EPESLPCLQTVTKLQVSKSKRT LTLVENKPIQLNCSVKSQTSQN SHFAVLWYVHKPSDANGKLIL KTTTHNSAFEYGTVEEEGLRAR LQFERHVS GDLFSLTVQRAEWL LSPNYAWYKLAEEVSGRTEVT VKQPGGSLGLGCSVSGWAAEP VCTQGP RPCSWNTPLALTAAC
4773	35141	A	4814	1	627	
4774	35142	A	4815	166	435	
4775	35143	B	4816	1	240	
4776	35144	A	4817	1	288	VVPASSPGAASEPRRRRRCLQP EKSVSPGSGGGHRDPPKARPPR PPSAPKP*RPRPFS*LARSLCFPA AGCAYGVGVGGAGGGGRAGLR QPVPAAVE
4777	35145	A	4818	206	1041	VSVGSAPSDMPAAATRW/CNSR CQH GQRLSAR/PVAGPGT/RTSS FPWLAPRNVVPGSLEMPGTA GPQRGSHSSPQGSSALLSFS/CV HNVESKEPVCLLLPSMASRLLT PRGT CRPVPGCLQHPLSLPPVL VGTQSPSQAPKSAKRPSQPQL GWLQLHPGGSGLCLLPAPAGS MECAALESVPSQLGIGAPGPCW AQAGVQGW SNVATSSPSGSA QGQPRAPPCLVCGPAQCCTSGS RSRATGLRPSCLECQVWWSQP CGANPGDTTSSQDAGTRCSKV
4778	35146	A	4819	2	487	

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4779	35147	A	4820	152	758	RGARGPEWDGQLDGPQSQMC GMASAPRLRRSGVRAAAGHPV QQPRLLDGLSLTDESDSCVSFEP PSHPSSSSGPVTALSRGWNFLK AFPLMGETQERER/VLTHFSRR YCQCPND/AQPSEDGIH/TLTCA LMLLNTDLHGHVIGEVGTETN RTDKQQNRTEQSKRQANADKH NEHANNEQQHEHDKDNDTRTR DTEMRHAKRDNA
4780	35148	A	4821	100	220	
4781	35149	A	4822	100	1588	CLKISTGYTGSMEEAŠGNLTI MAEGEGEAGTSTHGQSRKRRE KEEVLPFKQPDLVRSYRENS KEEICPHDSVTSCQTPPTLGITI RHEIAASICHVADTAGVAGDA MMRKTDLIPFIGLTLQGGRSA DMGNQKKWRKGSENATLVA MASERFWQYSGNSTIQPKQK QHGMITRLVTAPVCPGLVQPSL CAVGLRNIMSLSSHTCALQNTK QAWEGYDDCHSQRVSQPGEN MTKLSFLNLLNQMPSWGEGKM VPADFSGSCWEGTGTGSPAGSQ VSFLNRHNDGQLAGDSPGLPPP PCPRGLQGAEQRSALRRHKAD VHRDQWLVISFSKKLRTSARK WYEAGPFSGVPRVLPAAAQGG TDFPFSPSEEPFQSPFSMVQAH TVRSKPQFHFPAAGENCLNRSE LSRNQGLQARVGPLAINSSDPS GDFVLYTPTILGFVGLVLSR EGTFLWRYSTCPLNYKLWLP GYLGLLVPKDQKVRAVFLGM
4782	35150	A	4823	1329	1881	AHLEAAGWSSSVQGPSPRVLG RAEEHGQQSGRAKEIGHKIPKE TFDELTALETISSKICLYLAKK NQVIQQELLSMKEVQQCKKL EEVNKILEQEVVNLKTHEKNM VEFGDVEECKLQLEERAGQEIE KLEEINLQRACLSARKVRAEGE LEPRRHHNHTLGFTEGPWGLM SVITGAYDLIR
4783	35151	A	4824	176	308	LGNLTSPFFN*KHRSTKGFTTSL TVALLLTGHVGIKTSNCHPGY

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4784	35152	A	4825	1467	1890	DWFDELTALETISSK\CLYLAK KNQVIQQELLSMKEVQQKCKK LEEVENKILEQEVVNLKTHEKN MVEFGDVEECKLQLEERAGQEI EKLEEINLQRACLSAKKVRAEG ELEPRRHNNHTLGFTGEPWGL MSVITGAYDLIR
4785	35153	B	4826	1	753	
4786	35154	A	4827	225	410	
4787	35155	A	4828	225	410	
4788	35156	A	4829	225	411	
4789	35157	A	4830	141	1001	GGVRGVQQKETCAFKVLESIG KLG\LALS VAGGAENSALYNVD AGHRAVIFDRFRGEQDIVVGEG THFLIPWVQK/PPIIFDCRSRPRNV VPVITGSKDLQNVNITLRLFRP VASQLPRIFTSIGEDYDERVLPST TTAENLKS VVAPFDAGELITQRE LVSRQV\SDDLATERAATFGLIL DDVSLTHLTFGKEFTEAVEAKQ VAQQEAQRARFVVEKAEQQKK AAHSAEGDSKAAELIANSLATA GDGLIELRKLEAAEDIA YQLSR SRNITYLPTG\QSVLLQLPQ
4790	35158	A	4831	194	453	QPLPEPELELRPKAL*LTQSIFSA *RLKTAARLPKPWAVLPQGFT DTPPHFSQAQISSSVTYLSIILV KTHVLCSPFHRGTGVV
4791	35159	A	4832	1	86	PCESYLEHL*WSCRLRLRLGSV SLQLLS
4792	35160	C	4833	191	263	
4793	35161	B	4834	1	741	
4794	35162	A	4835	3	96	
4795	35163	A	4836	1	301	QEQQKMNTLQGPVSFKDVAVD FTQEEWRQLDPDEKITYGDVM LENYSHLVSLAYEVATSCTSEIL KPSNLPKSFFFSH*QDMISPSQT SSLWSRERSCG
4796	35164	A	4837	3	273	VLHFISAGNTFAHQEHSPRKG PNNLSKRKLLPA\GPRVFHGE DRHL/LFSTRKE*ARSLCYVQG GVQAPAAAFCSLLSLWGWAGC AFWC

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4797	35165	A	4838	3062	3688	RSVTRAPPRSTFPLAQAPSPRSH HIREPTPSPHLGPLRGSHRGPPS RPLPPALAALSLETLPRLHP HLHL\LDQGRACVRAAHPS YLWRCHALGVWVES/ARLRPS ALPPAHSPPLAAPLLSSSVQPPA PALEPPPRPPAAGAAARCLAAQ HHHPSRLGVRQPPLAVGALGST WPPQAPAPPPPELSALEQDRVGA QPPPPPSQGA
4798	35166	A	4839	1	197	
4799	35167	C	4840	26	358	
4800	35168	A	4841	84	433	PASAPLGLSATVSACFQEQQKM NTLQGPVSFKDVAVDFTQEEW RQLDPDEKITYGDVMLENYSH LVSLAYEVATSCTSEILKPSNLP KSFFFSH*QDMISPSQTSSLWS RERSCG
4801	35169	A	4842	1	372	VQWLFMQICLGKGKQQLRHQG VQEKMLPLEGS*VIEAGSPTLIG ETLSLEIINYIIGAGLESVHTKS RQLGGWTRPGSHFQQVLIPAHT PMNLEPSQLSLEPRLVPAQQSL PSAPTPSKALSQ
4802	35170	B	4843	7	267	
4803	35171	B	4844	213	3895	
4804	35172	C	4845	141	359	

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4805	35173	A	4846	831	3017	RRRLHYSGSTRPWTRAMLPR TSLRPHLSLSLHPLPCLLLHL LPTHLP PGPKHQPTVREL/ARRC RLPRACHPAQNLEQQPLRPSH LQRH/LSLLPPLGLSQSGPPG/LA PQPLL*LQTPDHFAGADPCSIHG TSH*HQGTSNPSGRDGYQTPSH ICP\SPAPKQSFLGTQNTSPSSP AAPAASSAPPMFKPIFTAPPKSE KEGTPPGPSVTATAPSSSLPT TTSTTAPTQPVFSSMGPPASVP LPAPFFKQTTTPATAPTTPALF TGLASATSAVAPITSASPSTDSA SKPAFGFGINSVSSSVSTTTST ATAASQPFLFGAPQASAASFTP AMGSIFQFGKPPALPTTTTVTTF SQLHTAVPTATSSSAADFSGF GSTLATSAPATSSQPTLTFSNTS TPTFNIPFGSSAKSPLPSYPGAN PQPAFGAAEQPPGAAPALAP SFGSSFTFGNSAAPAPATAPTPA PASTIKIVPAHVPTPIQPTFGGAT HSAFGLKATASAFGAPASSQPA FGGSTAVFSFGAATSSGFGATT QTASSGSSSVFGSTTPSPFTFG GSAAPAGSGSFGINVATPGSSA TTGAFSFGAGQSGSTATSTPFT GGLGQNALGTTGQSTPFAFNV GSTTESKPVFGGTATPTFGQNT PAPGVGTSGSSLFGASSAPAQ GFVGVAPFGNTFAHQEHSPR KGPNNLSKRKLLPAVRAQGPPR
4806	35174	A	4847	9	935	IPCFCGAMPYQTRRQENDLR TASIAV*RRKQDDH*KQRRW QNIQRKGPKRYIVIAGNSQSHQ PMIFSMRLRKLKVTCDVLPEIR AICIEIGCWMQSYSTSFLTDSY LKYIGWTLHDKHREVRVKCVK ALKGLYGNRDLTARLELFTGRF KDW MVSMIMDREYSVAVEAV\ RLLILILK\NMEGVLMVDVDCES VYPIV*ASN*ALASAVGEFLYW KLFYPECEIRTMGGREQRQSPG AQRTFFQLLLSFFVESKSHFVTQ GGGSGQFSAHRNLCLPGSGNFH VSASRVAGIAGAPPHTWLIYVF
4807	35175	A	4848	1	1749	
4808	35176	B	4849	282	1227	

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4809	35177	A	4850	221	907	FEDSFNRGVKKKAAKRPLKTP VAKYPPKGSQAVHRHSRKQSE PPANDIFNAAKAAKSDMQHRE VRVKCVKALKGLYGNRDLTAR LELFTGRFKDWMVSMIMDRE YSVAVEAVRLILILKNMEGVL MDVDCESVYPIVLFYPECEIRT MGGREQRQSPGAQRTFFQLLS FFVESKLHDHAAYLVDNLWDC AGTQLKDWEGLTSLLEKDQS TCHMEPGPGTFHLLG
4810	35178	B	4851	1	2361	
4811	35179	B	4852	1	878	
4812	35180	A	4853	1	313	MPHTPRCLFRPQASCLVHFLEQ QNKLLTKLQFFQNRECKSNL EPLFEGYTLRREAECMEANS RLASELNHVQEVLEGYKKKYE EEVALKATAENEFVALKK
4813	35181	A	4854	188	354	
4814	35182	A	4855	405	647	LPLISDQVSYSPLMSKSLASLY QESY*TILARIPLPLISPFVNSLST DLFILLIGNTSIAIFAEGVSAISL PSCNSLE
4815	35183	A	4856	1	585	MSSGEGKRTWLGSLWGGVRVP VPPPICGLRVAVTSAGTSSFSLA PKPTRIRGERGKGQGRG/SSGN GGRGRAGASAGGSRGEVVSVA NDGRWRGRGRGVGCPRSSKRE DNRFAKHGRASGKA WEPHPPS QALRALFGPIRRRGRAAETRIV YWIKDRQLTNRDSTILELQKVL KTCCAQSMKIFCCLWNFVYKQ
4816	35184	C	4857	12	468	
4817	35185	A	4858	1	1156	MAFRKKIITAGCIDHVLVSDDS QQMQANLTQRTEAEIRKQTQIA PTFPAHSLPDKYLGFALLNRKII GTFLVFNMCNRNHEDKNEAFT VLREKKVFNFECTLQNYSSSEV KEKERQRFSDKQTLREFATRK ALKEMLKVLQRYKERKHIRKR NVKYSADHTDHTANQADPNQ QEPHVPGHADPNKTIRQKQ HKDNTTRKHNQMTSDTSRTNT KVSGQPRGKQTRRRHERQKA RERGQHRQK/RDAQTREHTQR QRQARAEEQVIENKREEKRTS ERTNDSTRREGTRRPRTEKGE RQEEGDRATATHRKDHDRQQP HGAPHCSRSSRHGAPTGPLYCC SPLPGTPSCTICTVQYGRWPH MATEQLNMAGPNQDFQDVVW

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4818	35186	A	4859	1	1580	MAPALLLLLASGAAACPLPCV CQNLSESLSTLCAHRGLLFVPP NVDRTVELRLADNFIQALGPP DFRNMGTGLVDLTLSRNAITRIG ARAFGDLESLRSLHLDGNQAG GAGHPRALRGPVNLQHLILSGN QLGRIAPGAFDDFLESLEDLDLS YNNLRQVPWAGIGAMPALHTL NLDHNLIDALPPGA\FAQLGQLS RLDLTSNRLATLAPDPLFSRGR DAEASAPLVLSFSGNPLHCNC ELLWLRLARPDDLETCASPPG LAGRYFWAVPEGEFSCEPLIA RHTQRLWVLEGQRATLRCRAL GDPATMHWVGPDRLVGNSS RARAFPNGTLEIGVTGAGDAG GYTCIATNPAGEATARVELRVL ALPHGGNSSAEGGRPGPRTSPP PLALLPRYNSEDETLIYRIVPA SSHFLKHLVPGADYDLCLLA LSPAAGPSDLTATRLLGCAHFS TLPASPLCHALQAHVLGGTLTV AVGGVLVAALLVFTVALLVRG RGAGNGRLPLKLSHVQSQTNA
4819	35187	A	4860	2	403	
4820	35188	A	4861	87	442	PVFPWHPYSKDQKEESQSVLVI WQKTAGGGWSTWWILSFSPET EKVVKK/AHVDTL*NEMWDVT K*TAFKIPSCT*HQQHP*SFFRK SESQVIVFAGQGVKIH*YILLHS NVIHYMNEI
4821	35189	A	4862	2	651	EFIKQWDADKFEHIQTLEGHHQ EIWCLAVSPSGDYVVSSSHDKS LRLWERTREPLILEEEREMERE AEYEESVAKEDQPA\VPGEIQG DSYFT*KKTIETVK\AAERIMEA FELYREETAKMKEHKAICKAA GKEVPLPSNPILMAYGSISPSAY VLEIFKGIKSSELEESLLVLPFSY VPDILKLFNEFIQLGSDVELICR CLFFLLRIHFGQITS

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4822	35190	A	4863	1	703	MGLTKQYLRYVASAVFGVIGS QKGNIVFVTLRGEKGRYVAVP ACEHVFIWDLRKGEKGLKQEV TCLCSPDGLHLAVGYEDGSIRI FSLLSGEGNVTFNHKAAITTL KYDQLGGRLASGSK/RQPGGIV FTESILAYSSACQDKQNHYWGS SQ*CADFVIQLRQYCCSFSCS*F H*NMEQVYTAVYSHNDL*ICTL LILCTW**TGSHRNKAPKTMFP RCTEGLDRGNRPATHS
4823	35191	B	4864	1	2616	
4824	35192	A	4865	3	674	PECTGRTLRSASQQHDTFYILA CELNSLADDAQRIVDPNSCL YPPDLPWRPVMQAKKELARR DDIEDGDSMISSATSDTGSAKR KSKKNIRKQRMKILFNVVLEAR EPGSGRRLCDLFMVKPSKKDYP DYYIIILEPMDLKIIHNIRNDKY AGEEGMIEDMKLMFRNARHYN EEGSQVYNDAHILEKLLKEKRK ELGPLPDDDDMASPKLKLSKA ASHFII
4825	35193	A	4866	3	425	
4826	35194	A	4867	1	1115	LCSVPTLCLASSHLVSNLSTFKQ VTSSFIRHV VATLLGLYLALFCF GWYALHFLVQSGISYCIIMIGV ENMHNYCFVFALGYLTVCQVT RVYIFDYQQYSADFSGPMMIIT QKITSLACEIHDGMFRKDEELT SSQRDLAVRRMPSSLLEYLSYNC NFMGILAGPLCSYKDYITFIEGR SYHITQSGENGKEETQYERTEP SPNTAVVQKLLVCGLALLFHLT ICTTLPVEYNIDEHFQATASWPT KIIYLYISLLAARPKYYFAWTLG TAPRKWSPCPGPQCIQLRAADP SGPEPLMLSSQERQPKAKPPK EAHADIAGTPREGEKTRTGPG KAFLRDPGASSVELSRTQLWV LTPPIAKAPCECLQ
4827	35195	B	4868	218	656	
4828	35196	A	4869	1	180	
4829	35197	A	4870	12	199	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS

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4830	35198	A	4871	1	5058	MKLRGVSLAAGLFLALSLWG QPAEAAACYGCSPGSKDCSGI KGEKGERGFPGLEGHPGLPGFP GPEGPPGPRGQKGGDGIPGPPG PKGIRGPPGLPGFPGTGLPGMP GHDGAPGPQGIPGCNGTKGER GFPSPGFPGLOGPPGPPGIPGM KGEPGSIIMSSLPGPKGNPGYPG PPGIQGLPGTIPGPIGPPGPPG LMGPPGPPGLPGPKGNMGLNF QQPKGEKGEQGLQGPPGPPGQI SEQKRPIDVEF
4831	35199	A	4872	3	1646	EDEGRAKGHHTWQQTRENESQ AKGETPYKTIRFRETYHKNMS GETTPMIQLSPTGSLPQHVGIM GATIQDKIWVTPGLPGFPGTPG LPVKRGFPSPGFPGLQGPPVIP GPTGIPGPIGPPGPPGLMVTGP PGLPGPKVNMGLNFQGPKEK VKQGLQGPPGPPGQISEQKRPID VEFQKGDQVIPGDRGPPGPPGI RGPPVTPGGEKGEKGEQGEFG KRVKPGKDGENGQPGIPVMPG DPGYPGEPGRDG/EKGNAVMG PPGPPGFPGERGQKGDEGPPGIS IPGPPGLDGQPGAPGLPGPPGPA GPHIPPSNKGDTCFNCIGTGISG PPGQPLPGLPGPPGVPAPGA PGFPGSKGEPGDILTFPGMKGD KGELGSPGAPGLPGLPGTPGQD GLPGLPGPKGEPVRITFKGERGP PGNPGLPGLPGNIGPMGPPGFG PPGPVGEKGIQGVAGNPGQPGI PGNKDQPGTITQPGKPLPGN PGRDGDVGLPGIPGLPGQPLP GIPGSKGEPGIPGIGLPGPPGPK
4832	35200	A	4873	110	256	CSGTYRCYSF/HSRDPYLWSAPS DPLE/LVVTGPARQYYTKGNLV RIASGL
4833	35201	A	4874	2	2888	LSDPCSSRWDERSLSQRSRSWS YNGYYSDLSTARHSGHHKRR KEKKVKHKKKGKKQKHCRRH KQTKRRILIPSDIESSKSSTRR MKSSCDRERSSRSSLSHHSSK RDWSKSDKDVQSSLTHSSRDSY RSKSHSQSYRGSSRSRTASKSS SHSRSRKSRSSSKSGHRKRAS KSPRKTAQLSENKPVKTEPLR ATMAQENVVVVQPVVAENIPV IPLSDSPPPSRWKPGQKPKWPS YERIQEMKAKTTHL

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4834	35202	A	4875	350	986	LWGGGSARLLRLPRGPCLPPAS PSSPSSSELS*SCSLGPSSSSSSS SSSCSLCPSSSSSSSP*LPPSSSS SSSRPLPPSSSSSSSSSSSSSSSS SECLCSPSSRPRTTVAGLGAPAG FPSGPVDTCVWLLRFTSTMIW DCSLRL*VPEPPSSSSNSSPPSSL HKLAGGPASSTPPSFSLKKG WAGPMVAGTVPPAVPAPSSTR TE
4835	35203	A	4876	1	496	SQSYS\RGSSRSRTASKSSSHRS RSKSRSSSKSAVLASTARCAGS RKQCVPLPIRLCQLQSRSLQPS MVPWRWGLTGPRGIALPPAAR PGPLHEAPRWGPPRRAPRPWP PGARPGRRRRRAAASPAPSSCG PRASGAAGGGRGAPIGARASA GAAVWTPISTT
4836	35204	A	4877	3	4578	TLAVFVPTLAGFSVALGGPAW GRRRRSVSGVGWVLQWQCFLF CSRGPAQAGGQPALAATSVAM GAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCKNFLCLCSG EKGLGKTTGKKLCYKGSTFHR VVKNFMIQGGDFSEGNGKGGE SIYGGYFKDENFILKHDRFLLS MANRGKHTNGSQFFITTKPAPH LDGVHVVFGLVISGFEVIEQIEN LKTDAASRPYADVRVIDCGVL ATKSIKDVFEKKRKKPT
4837	35205	A	4878	1	1689	

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4838	35206	A	4879	1	1604	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIIYK AVESQGFVFCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAWKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAADMPIINVISDSSYM VYSTQLIENALRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA RHHTPLPGPLTEGNQMADECLVA NAISNARHFHNLTHVNASGLK HRYSTWKEAKNIIQRCPTCQM VHSSFRGGVNPRGLEPNSLWQ MDVTHIPLFGRLAYVHKRRRIR GGGGGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEQEQEE QEQQEQEQEQEQEQERRRKDTE ELSYSLPLNRTQPCWHPDFGLP
4839	35207	A	4880	1	1146	
4840	35208	A	4881	1	1577	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSDYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FIEGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFWKVLPPQGNQQPIWI PSRYLKPYHKPDAAKEEPEGSQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPMMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKISGGNCGPHPHRLQPCPD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4841	35209	A	4882	1	420	MTNISTTLKDLKDAGMIDPIKS TFNL/PIWIPQKPDGSKTTANN /R/KLNQATISIAAIVLDVASLPG KARSYHGFSSHAGRVIDSNQK DIEGCTYILNVAGKNMFGIQLR RSVIFPCPNLMYTDNCSSHGPR GPSDYDSDP
4842	35210	A	4883	213	687	PEHILPGAQEGPSC/PLEPELE/V *NMSSWNTLSECKMHGDLKY LFVITAKDQQ/VSIAAST/*GFC WNQ*VSASPSQAPGMPLVLGR RLWQGSRLGGLSISLSDCHGA HNHSFKRVTTTLQVFSWTVPQ AEPAMDCIHTA/DSRQRLP*QA HESVAEVIIT
4843	35211	A	4884	1	648	MSSWNPLPESFKKHGYLLYLFV ITAKDQQ/VSITASTWGFYWNH SQGKNPEQMEASQKPVAGLWA WWLNISLSAASHGAQNHPFKR VTTTLQSQGWKDLWIMRELL CNNRPEQLLQETATIKAPIAPAD PWSQEVYINFCKAVSSVSCMPF NIHFNSNIPPESSGDWRMQPC KVEQSILGAQRGGGGCRPGSLR ELFPCLLAEPNMEEEVAALRA
4844	35212	A	4885	3	597	GTLEPAAEWSVLLGVHSQDGP LDGAHTRAVAAIVVPANYSQV ELGADLALLRLASPASLGPV WPVCLPRASHRFVHGTACWAT GWGDVQEADPLPLPWVLQEVE LRLLEATCQCLYSQPGPFNLT LQILPGMLCAGYPEGRRDTCQP SPEPGPMCIS/VSHIQLRDAVS HTWQRGTEPARLGSWERRQRQ QQQGPV
4845	35213	B	4886	387	552	
4846	35214	A	4887	20	612	
4847	35215	A	4888	792	959	TGLSSSQNPKATKSIPTWHRLL PNVDSQVQQNSQAIITYN*GNS ESQYPFSKMDT
4848	35216	A	4889	268	500	
4849	35217	A	4890	1	529	
4850	35218	B	4891	259	1672	
4851	35219	A	4892	480	657	
4852	35220	A	4893	2	377	WCDFSSSLHRSVQALRTFCVTL SGAFVRDCTTVLSSTTCEPSTD V/CWAMNIVTSVLLLYGSEEEA FWLLVALCERMLPDYYNTRV VVIRTYDQRYEQCDLYDGLP TTLFTTDDWHVWPDLTGLP

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4853	35221	A	4894	1	251	TEARKAAAVMPKTAVLAAERP KKA WGV LIPK KSTK RTPK AFA GGGCW/TKVGWSKVAKKVPKP EASKPKKAAPKTRRYKSTLTKTK
4854	35222	A	4895	283	427	PSVSKESPLNSPASQAGSATFAT TPLTPPK/PAATSSVAAAALLPA LPR
4855	35223	A	4896	111	1095	SRGWSRLPVPCCAPALLSPWAV NGIRRRGAGDGTRRGSGCAG AHSAGLVASGPESWIPGPVPPG AEP RRGDSGLARCPAPGHPSR ASPQRPAEGFDALAAPSRVPGD SRQLSRNNTRSRCEGRGGKTPP AWAGVHRHGPPPAAPPGRARV HGHRLRGGLGPGGGKRG LPGC CPRAADPRGRP/GETSRSGERGP PGRSAPLSLQPRHRTGLET/RQP SPLARSRPGLGPRPSARRPSRPA PPPPPELHRGAPQRGRVASQT RPGARARPAADTHSSLKSPASQ AGSAAFATAPLTPQKPQLRAP WQPLHSFRPCRGVTSRLRTAPP
4856	35224	B	4897	243	452	
4857	35225	A	4898	3	353	RRYLSPKYIKMFVLDEADEMLS RGFKDQIYDIFQKLNSNTQVVL LSATMPSDVLEVTKKFMRDPIR ILVKKEELTLEGIRQFYINVERE EWKLDTLCD\LSAMHGDMQK ERDVIMR
4858	35226	A	4899	3	410	NLQEWKLDTLCDLYETLTITQA VIFINTRRKVDWLTEKM HARDF TVSAMVCLPAASLLWVCPSEV SYLKPGFLEPRCLPGLLHICFLF QHGDMDQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQKG GSKVI
4859	35227	A	4900	1	235	MLSYVLEVTKKFMRDPIWILVK KEELILESIHQFCINVEQEKWKL DTLRDLYETLTITQA/VIFTNTR RKCCSKVREI
4860	35228	A	4901	3	48	NSNVEREEWKLDTLCDLYETL TITQAVIFINTRRKVDWLTEKM HARDFTVSAMHGDMQK ERD VIMREFRSGSSRVLITDILLVSR GN**QRGTRGVEAGHTM

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4861	35229	A	4902	2	879	AQFPTRLDLKATQALVLAPTRE LAQHIQKVVMALGDYMGASC HACIGGTNVRAEVQKLQMEAP HIIVGTPGRVFDMLNRRYLSPK YIKMFVLDEADEMLSRGFKDQI YDIFQKLNSNTQVVLLSATMPS DVLEVTKKFMRDPIRILVKKEE LTLEGIRQFYINVEREEWKLDL LCDLYETLTITQAVIFINTRRKV DWLTEKM HARDFTVSAMHGD MDQKERDVMREFRSGSSRVLI TTDLLARGIDVQQVSLVINYDL PTNR\ENYIHRIGRGGFRGKGV AINMVTTEEDK
4862	35230	A	4903	1	1764	MASLEEGIYSLKINSKRSSYNS MNPQFTAGSEGNETEENKFKQ SRKGRPQDSGSSLSVLQEILG DDIPKVKEEAVISSQDLGECPY CGERPARNATIFAPQKEKESAP EMSSSCDKRVTNPPKFFSEGR PKTQNTLICEKCSQPSNFLDDY NPHVIIQKRLSNQSRVICEKSSP PLNVPDNYNSHVIQKHKEKM AIERPSSGSDWSDVGGTTVIFSE EKPFSLCLPVVSEPPYYATDYT TFPPHYSPWHDYTSSWFSSTKS SCYPSLGSSSNTLQAGKSSCSSS SRSNNNIFQGERSSHQSFLSDYS TSFPVSSENTSRLKMTTEGRS KNSSLFYYSRNVEAEAKEERVY QEETLGHPYGGGRASSFPRTIW QPEQPGFIDTHCHLDLLYSRLPF KGTFTKFRKIYSNTFPKEFQGC SCFCNPQNLSNLDNLWEDQLKDD LVWGVFGCRPHFAHYNNYQE RSILKALRHPKAVAFGEMGLD YSSKCTTHIPEQQKVFKRLRL AVSLK\KPMMIHCREADEDLLG ILKKYVPSDHKMYQHCFGTSYP VIKPLLSCFPNLVYGFMAILTYS SAEQARETVKK

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4863	35231	A	4904	125	820	VLAPNYHITFRNLSSVSPV TSA EPVLQAGQARELSFSSLHPASPL LVPSTPALTLHAFNALVLFPSFP LEKAAKRERPKSKIQTARVGK MRRTWSPHTTISAGGSVNGAST LKNSLVWEAKPADTNTNTPPPTT HPNPGPTPPTNTNRHPPPHPLT NTPAPPHQPPATTP/SPQTQTPN YCPNTDHTTPTHTDPNPVPPTR RTPPNRTGKRTNTSQNYRLVSP APKIHWEA
4864	35232	A	4905	407	757	
4865	35233	A	4906	5	426	GKTSTKSQNASSPPKDHNSSPA REQN/WIENEFNELTEVGFRIT SLEKNINDLMELKNTARELREA YTSINSQINQVEERISEIEDQLNE IKHEDKIREKRMKRNQQLQEI WDYVKRPNLRLIGVPESDIENG TKLENTL
4866	35234	A	4907	1	2267	MTGQFQDVVREEARLPNRRIM RLRFNHFATECSWDHLYVYDG DSIYAPLVAAFRCEVENRYQGN PLRGTCYYTLLIDYQFTFSLSQE DDRYYTAINFVATPDEETPIRG RQTAHTGELQLTSGGYPSGMK LPEEGTGERNRITINKKDVHTET PSKGHQHQRPKVDKSTKIKKN QRKKAENSKNKNASSPEDHN SSPAREQNWMENEFDELTEVG FRRWVITNSSKLKHHVLTQCKE AKNLEKRLGQLLTRITSLEKNV KELMELKNKAQELCEAYTSINS QIDQAEESISEIEDQLNEIKHED KIREKRIKRNKQSLQEIWDYVK RPNLRLIGVPESDGENGTKLEN TLQDIVQDNFPSLARQANIQIE ILKTPQRYFSRRATPRNIITFTK VEIKGKMLRAVREKDHSAIKLE LRIKKLTQNCTTMWKLNNLLL NEYWVHNEIKAEINKFFETNEK KDTTYQDLWDATAKAVFKGKFI ALNAHRRKWERSRIDTLTSQK ELEKQEQTNSKASKRQEITKIR AELKEIETQKTLQKINESRSWFF EKINKIDRLLARPIKKKREKNQI DTIKNDKGDITTEPTMQTTIRE YYKHLANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTTSSE IEAIINSLPTKKSPGPDGFTAKL YQRYKEEVVPLLLKLFQTVGK EGPLPNSFYWANIILIPKGRHT

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4867	35235	C	4908	605	760	
4868	35236	A	4909	94	400	
4869	35237	A	4910	1	1538	MPIQM QYPQYKLVENKTQPPVI YQYWPPADLQYRPPPEVKYRP QVVCVPVNSTAPYQQPTAVVF NPTAPPSGQGIIAQNTDLVEWF FLPHSTIKTFTLYLDQMATLIGQ ARLRIKLCESDSKIIVPLNKEQ VRQAFINS GAWQIGLADFGII DNHYPKTKIFQLKLTWILPKI TRHKPLENALT VFTDGSSNGKA AYTRPKERLIETQYHWAQRAE LVA VITVLQDFNQ SINIVSDSA YVVQATKDVETALIKYSIDDQL NQLFNMLQQT VRKRNF PFYVT HIRAHTNLPEPLTKANEQVDLL VSSAFLEAQELHALTHVNATGL KNKFDITWKQAKNIVQHYTQC QIPHLPTQEAGVNPREQHFTGK KNSPHEGKLIWWKDKKNKWT EIGKVITWERGFACVSQGENQL PGWIPTRNLKFYNEPLGDAKKS ASAETKNPQLSIIDSPGKAPGCL MPTTQNWLV E VPTVSATSKFT YHMOVPPAPKRQRPARTGHND DGSFVKKGDM
4870	35238	A	4911	1	759	FRMVIRCLPQRELD CDRGNWT ATSAELTGK WRRYNFGGHGD CGPIISVPAQDDPILLSFIRCLQA NLLCVWRRDV*PDC*ELWIFW WGDEPNLVGVYIMNCRLWKK DSGKMAFPMNVGRC/FFKAIHN LLERCLMDKNFVRIGKWFVRP YEKDEKPVNKSEHLSCAFTFFL \HGESNVCTSVEIAQHQPILIN EEHIHMAQSSPAPFQVLVSPYG LNGTHLTGQAYKMSDPATRKLLIE EWQYFYPMVLK KKKK
4871	35239	A	4912	1	539	MRHPCDGNLSLYFDHISVNMLA VMLYYGFRV SIGKTGLRGVQ RHLWPLPLDASSTKT VSSSHSD KGEIFSPFCSLINCNNFEMRNT TKCLMDKNFVRIGKWFVRPYE KDEKPVNKRVT SQEIWLFDEY\ GVS LPCFAVERCALLPLCLLPR LMISISSTRQPQYISRRGLKAKI SWVV
4872	35240	A	4913	198	620	

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4873	35241	A	4914	63	1267	RNRILRMEFFDWFWAFWSWLL NMIRSQNAKDSSNSMENTDSP WCELFRELCKINALDVPDSSLV RGNEFSASVHNTFDHMWRTKE RYEAGWLLLSSADRVMKENDE LRDSVSWLQKQILSLKSALIAL SGSLISYRERAEIVEKQTQTLIM RVADLQQKGYINSPALCHNLIW RDLDFHSFPYDITLFHYIDDIML IGSSEQEVANTLDILKGQRFVLT VIDTYSRYWFASPECNASE/KT TIHGFTECIHHYHGIPHSIAŠYQG THFMAEPPGWSKNQGVVETPF TITPSDPVATFLLPVPMTLRSAG LEVLPPEGGLPPGDTTMIPLN WMLRLPPGHFGLLLPLSQQAK KGVTVLAVVIDPDYQDEISLLF HNGAIISDGNVILIGLLQWFST
4874	35242	A	4915	2	2210	
4875	35243	A	4916	1	2036	MDTFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLLQLF QSIEKEGILPNSFYEASIIIPKPG RETTKKENFRPISLMNIDAKIVN KILAKRIQQHIKKLIHHDQVGFI PGMQGWLNTCKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLKKLGTGTYFKIVRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPFLFNIVLEVLARAIR QKEIKGIQLGKEEVILSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKTNVQKSQAFLYTNNI QTGSQIMSDLPFTIASKRIKYL IQLTRDMKDLFKNYKPLLTEM/ KTKKWKNIPCS/WELEKTTLKFI /WNRKRARIAKSILSQKNKAGG ITLPDFKLYYKATVTKTAWYW DQNRDIDQWNRTEPSEITPHIY NYLIFDKPEKNKQWGKESLFN KWCWENWLAICRKLKLDPFLT PYTKINSRWIKDLNLRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATQAKIDKWELIKLKSFCT AKETIIRVNRQPTKWEKIFTTYS SDKGLISRIYNELKQIYKKKKQP HQKDFAYHFTVFVFYFGAFLLE AAATSLHDLHCNTTITG/HATPE **PV*HKRSSLTITYLCRSG*IIW WCDPHTHS
4876	35244	A	4917	1	1359	

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4877	35245	B	4918	1	948	
4878	35246	A	4919	1	981	
4879	35247	A	4920	1	3747	
4880	35248	A	4921	1	1875	
4881	35249	A	4922	1	2238	
4882	35250	A	4923	1	3924	
4883	35251	A	4924	1	1068	
4884	35252	B	4925	62	389	
4885	35253	B	4926	1	3663	
4886	35254	A	4927	1	1474	MAVSTTVRVDMPCCAVMLYC WGRSGKEQQPDEALKGKGFTV CFEGLRFGQKPGSYFSLDQIGH VEIQMITPPWRGTTLSTKRGG KRGKTESDREHNLAPPKGRDTP KKEGAHVRRGGPLSGTPPTEKK GKARSPRYGDTHRGEGLNKT RAPQNFSESEPTINKIDRPLAR LIKKKREKNQIDTIKNDKGDIT NPTEIQTIREYYKHLIYANKLE NLEETDKFLDTYTLPRLNQEEV ESLNRPIRGSEIEAIINSLP\TKKS\ PGTDGFTAKFYQRYKEELVPFL LKLQFQIEKEGILPNSFYEASII PKPGRDTQKKENFRPISLMNID AKIVSKILANRIQVHIKKLIHHD QVGFIPGMQGCVGSSARAIGQE KEIKGIQLGKEEAKLSLFADDTI ECLNPIVSAQNLFKLISNFSKV SGYKIHVPKSVSFLYTNNIAES QIKNAIPFTIASKRIKYLGIQLTL EVKELYNKNYKTLLKEIRDE
4887	35255	A	4928	419	1002	CYQRWKVLKKSSGPLARL/IKK REKNQIDAIKNDKGDITDPTEI QTTIREYYKHLIYINKLENLEET DKFLDTYTLPRLNQEEVESLNR PITGSEIEAIINSLQTKKSPGPDG FTAKLYQRYKEELVIYRFNAIPI KLPMFTFTELEKTTLKFIWNQK RIRIAKSILSQKNKAGGITLPDF KLYYKATVTKTAWYW

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4888	35256	A	4929	1	2502	MFFETNENKDTTYQNLWDTFK AVCRGKFIALNTHKRKQERSKI DTLTSQKKEPEKQEQTTHSKASR RQEITKIRAEKKEIETQKTLOKIL QKINESRSWFFEEINKIDRLLAR LIKKKREKNQIDAIKNDKGDITT DRTEIQTIREYYKHLVANKLE NLEEMDKFLDTYNLPRLNQEE VESLAHRLITGSEIEAIIINSLPTKK SPGPDGFTAKFYQRYKEELVPP LLKLFQSIEKEGILPNSFYEANI LIPKPGTDTTKENFRPISLMNI DVKILNKILANRIQQQIKKLIHH DQVGFIQMGWFWNIHKSINVI QHINRTKDKNHMIIISIDAEKAF DKIQQPFMLKSLNKLVLVLAR AIRQEKEMKGIQLGKEEVKLSL FADDMIVYLENPIISAQDLLKLI SNFSKVSGYEINVQKSQASLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLL NEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAILIKLPM TFFTELEKTTTLKFIRNQKRACIA KSILSKKEKAGGIMLPEFKL*Y KATVTKTVWYWCQNRVIDQW NRTEPSEIIPHIYNHLIFDKPDKN KKWGKDSL FNKWCWEHWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLAGHLGNTIRDI GLGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETAIRVNR
4889	35257	A	4930	1	4187	MGDFNTPLSTLDRSMRQKVNK DSQELNSALHQADLTDICRTLH PKSTEYTFFAAPHHTYSKIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVY RGKFIAFKAVCRGKFIALNAQN RKQERSKIDTLTSQKKELEKQE QTHSKASRRQEITKIRAEKKEIE TQKTLOKVISESRSWFFEKTNKI DRPLARLIKKR

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4890	35258	A	4931	1	1818	MSSRGPCTLETLINPSVADDI PHLRPKPVYITTTDRNENIYSTK IPYMAARVVFIKWIVTFLEKK YLTATQNTKNGVDVLPKIIQTV GGGAVQERAPELDGGGPTEQD KSHSNSSTLSDRRLSNSSLCSE EEHRMVYEMVQRILLSTRGYV NFBNEVFHQAFLLPSCEIAVTR KVVQVYRKWILQDKPVFMEEP DRKDVAQEDAELGFSETDSK EASSESSGHRSSSWGTHNSFT SAMSRCVTEEG/TIQMLEKAGV QALLQPVLCVFPLIPLPLCNQA ARPAVVSIPGLDLLPWSVLGG PADQWHLSYLKPEGSSAYACIL EALESAGKGLWKVSAVGRKP WTRGRSDRKGTVGHQVQFLFF KDEGRVDSRILTLMAWIRPN LCVYISRELWDDFLGVLS\SLTE WEELINEWANIMDSLTAVLAR TVYGVEMTNPLDKLSEQKEK KQRGKGCVLDPQKGTTVGRSF SLSWRSHPDVTEPMRFRSATT GAPGVEKARNIVRQKATAKRS QISNCVHLSEALPATKSVPLLL HTLYKNKALKAAALGQPVGKAD QLVVAGSPSVCCVEDQWGRSN LEAMVLWLICYIPDGDVLYL
4891	35259	C	4932	96	278	
4892	35260	A	4933	1	261	KLRLPPGHFGLLLLLSQAKKG VTVLAGVIDPDYHNEISLLHN GGKKKTRPAEMLAEGKGNT WVGEEVSHQYQL*PHDQLQKR
4893	35261	C	4934	36	385	
4894	35262	A	4935	1	2349	
4895	35263	A	4936	207	561	QLAEPHWIPGTRKDAQCLVGL FGFWRQHPIHLGGLLWPIYRVT QKAASFEWGPE*EKALQQIQPS VQAALPLGP*DLADPMVLEVS MADRCAGWSLWQAPIGELQQ KPLGFWSKALP

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4896	35264	A	4937	1	1375	MSTTQLDTMGAESLCNMETVQ VEDEGIQKLKEIRMVEWITPFRP THPSCEGPEDIPLTNALQNTFVR AAPASLKSPVVALLSPVGYRT HAVVISPVPECRFGIDILSSWQN PHIGSLAGRAHQKQFVGSWQG QQYAFTVLPQGHINSLALCHNL IWRDLDFLLSQGITLVHYTDD IMLIGSNLADPMVLEVSMADRC AGWSLWQAPIGELQKKPLGFW SKALPSSADNYSPPERQFFACY WALVETECLEPTGHQLTMQPEL PIMNWVLSDPSSHKWVHGQSG HGGRDGYSWTQQHGLPLTKG DLSMTTAEQCIFQQRPILSPRY GTIPWGDQPATWRQKWQRFVL TGIDTYSRYEFAYPACHASTKT TIHGLMEFLIHGPHSIASDQ GTHLMAKEVRQWAHAHGIHW SYHVPHHPEVAGLIERWNEGL LKSQQLQHQLVNRLRRELQCWL
4897	35265	A	4938	1	324	INCLRNCKTYQA/RKPLWFYNT SLKFFLNKP/MLADVVFIEIQT VPAHRAILV/ARCEVMAAMFN AGIFQAMCLLCAE/MYQVSRL QHICELFII/TQLQSMPSRELASM NL

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4898	35266	A	4939	108	2304	VAAAYPPPASPPWSPARSLAGA APAPLCVGPAAVEAREGDAAG DERIAGELAARGPREAVSRCFS PSRRPALGFEIMSIHIVALGNEG DTFHQDNRPGLIRTYLGRSPL VSGDESSLLNAASTVARPVFT EYQASAFGNVKLVVHDCPVW DIFDSDWYTSRNLIGGADIIVIK YINVNDKFSFHEVKDNYIPVIKR ALNSVPVIAAVGTRQNEELPCT CPLCTSDRGSCVSTTEGIQLAKE LGATYLELHSLDDFYIGKYFGG VLEYFMIQALNQKTSEKMKKR KMSNSFHGIRPPQLEQPEKMPV LKAESHYNLNNLLFCCQC VDVVFYNPDLKKVVEAHKIVL CAVSHVFMLLFNVSPTDIQDS SIIRTTQDLFAINRDTAFPGASH ESSGNPPLRVIVKDALFCCLSD ILRFIYSGAFQWEELEEDIRKKL KDSGDVSNVIEKVCKILKTPGKI NCLRNCKTYQARKPLWYNTS LKFFLNKPMADVVFEIQGYG QCPAHRAILVAPCEVMAAMF NGNLHGKAKSVLIPVYGVSKET FLSFLEYLYTDSCCPAIGIFQAM CLLICAEMYQVSRLQHICELFII TQLQSMPSRGTGHPWNLDIS/V DLL*KGPSFHHSWIAFSTWAYF HFHCYLTYLIFQFKRPGIFRDLF S/EGRNGSFLFGKRHRWGPSNM LLGRQLAGITGKYFTSPGNVG
4899	35267	B	4940	1	3117	
4900	35268	A	4941	1	1162	MRVCARACVRTRTRMCVYAH TCVCVRTYAYVRVRVRVHVR RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPRLIRMLEQTALEHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIAVQDTPRPAAT AISELNALAVKGVILTGDNPRA AAAIAGELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMGSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VTTLMTGLWLA VLADTGATV LVTANALRLRRR

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4901	35269	A	4942	1889	3387	QWAIKQFKHAEKENPYLFGGG HLRAIFR*SGFQ*QRLHTMHWG AS/QQAEHP/LAQPSTRAQLRTP P/TADS/QRALVGSGMKPRLNG ERVLICAAGKHPADAFTGLINE LESAGQTVVLVVRNDDVLGVI ALQDTLRADAATAISELNALGV KGVILTGDNPRAAAAIAAGELGL EFKAGLLPEDKVKAVTELNQH APLAMVGDGINDAPAMKAAAI GIAMGSGTDVALETADAALTH NHLRGLVQMIELARATHANIRQ NITIALGLKGIFLVTTLLGMTGL WLAVLADTGATVLFPPRLF NSQVGNGETNQTRFRLCAAPG GTFIADFTAGTGRRARPRRNR RVVVSFDFHQNMRRFLMEIVA ARFVVSKVAAHFRTFHYGGVIF ISRENVWIRGFESIFDHLEQFR LLFTIDNPVGKFNFAAVLGVR LGKHIQFDVVRVTTKLCEILQI VNFIFRQSQAQTQVSDQRLTA LPQQINAGNRSRLMVGKQLLCI
4902	35270	B	4943	1	2104	
4903	35271	C	4944	1	1215	
4904	35272	A	4945	3	268	YEFNRPYPEIQRSGIS\KLEPLL FAATSDSQLSKTEISSIKINSETV PVYQLRYNGNNALMFATYQD KMLVFSSTDMLFKDDQQDTEA
4905	35273	B	4946	1	1725	
4906	35274	A	4947	1	1437	
4907	35275	A	4948	2	736	QCPYPYIAATGRILVVTHLICLA PQIVENQVTYPLTTTMLSVPGA KTVRGFSQFGDSYVVVIFEDGT DPYWARSRVLEYLNQVQGMLP AGVSAELGPDATGVGWIEYA LVDRSGKHDLDLRLSLQDWIL KYELETIPCVSEVASVGGVVKE YQVVIDPQRLAQYGISLAEVKS ALDASNQEAGGSISIELAEAEY MGGTCSAHGRALSRGVLWCRF SAIVRGPPRGMFCGAGAAPNLI
4908	35276	A	4949	531	632	
4909	35277	A	4950	532	609	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4910	35278	A	4951	1	525	LGVEATA\IGDFGK\AAEKL PVP\ VELAQACAHAVMKSGIDLA VS YCMQVNHGFAQPLEFLLGGLD KVPVLLVFINGVATPLPGFQRT RMLGEAIGRFTSTPQYAGDTVN DEDISNTIRALFATGNFEDVRVL RDGELRKFPCTCESDDNFRPVTF SVNYVIRHDWVGIRRVVPENE
4911	35279	A	4952	1	2769	
4912	35280	A	4953	1	681	
4913	35281	A	4954	1	1230	
4914	35282	A	4955	1	774	MLRTSDRPPYQYPKRCIPLSVL EVLRCARRWSLRPYKQLARAYI /ERYRHDR\DIEREKRGRLNQEI RGLVEQTNASLLNENANKDSK AHERGDIHYHDLDYSPFFPMFN CMLIDLKGMLTQGFKMGNAEI EPPKSISTATAVTAQIIGSVHIYG GTTINRIDEVLAPFVTASYNKH RKTAEWNIPDAAGYANSRTIK ECYDAFQSLEYEVNTLHTANV EGLTGDDGIAVEALKKNSQKPR MSASHNCELVSLRGRQYT
4915	35283	A	4956	1	1278	
4916	35284	A	4957	461	1002	SLSTKGYAAAKWCSTACAGS/T LLLIVLLWVFIPKGFPPGQDNGI IQGTLQAPQSISFANMAQLQRQ VADVILQDPAVQSLTSFVGVDG TNPSLNSARLQINLKPLDERDD RVQKVIARLHTAVDKVPGVDL FLQPTQDLTIDTQGSRTQYQFT LHATSLDALNTWVPQLMEKI\Q QLPKLS
4917	35285	A	4958	1	291	MNPVDRPLLDIGLTRLEFLRISG KGLA\GLTIAPALLSLGCKQED IDSGTVGLINTPKGVLVTQRAR CTGCHRCEISCTNFNDGSVGT FSRJKPH
4918	35286	A	4959	1	306	MKNFEVLQPLQNSLSGLPLWV SERILQQINQLTHYEPVIGIMGK TGAGKSSLCNALFAGEVSPVSD VAGCTRDPLRFRLQIGEHFMTI VDLAPGVGESGVDRD
4919	35287	A	4960	2666	2775	
4920	35288	A	4961	9	308	GDLDGSRHRAFLCHLPVELKTA LMFVTLTRALMETAY/ATAVS A/NFRTESRGAH/SRFDFFD/RDD ENWL/CHSLYLPESESMTRRSV NMNPKLRPAFPKIRT
4921	35289	A	4962	1	1132	

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4922	35290	A	4963	1170	1352	RNLPDAAAGQSCAGEIRLYRQQT QRSRLQRWLHLACFRRCNLHR RELDATA*QHVRSCRWR
4923	35291	A	4964	1	312	MRKLTA LFVASTLALGAANLA HAADTTTAAPADAKPMMHHK GKFGPHQDMMFKDLNLTD AQ KQQIREIMKG\QRDQMKRPPL E ERRAMHDIIASDTFDKVKAEA
4924	35292	A	4965	3	205	KDHIKGVLEAQNSLSTQVSLFF *SFFG*NSNMRNLIQIYRSL/CTK AI*LMNFKRHK NQLVINYL SRS
4925	35293	A	4966	1	915	MTGVATARARGLRRPLSVGQV PPFARLWKG VQTVERHMLANI GTGSQHPCGCFQLINQNSVIVF AAGEVNGFTSGDVQCLKMRSG DMNDIQRQRLLPDGNKFGEIQ TTIREYYKHL YANKLEDLEEM DKFLD TYTL PRLNQEEVESLNR PITGSEIEAVVNSLPTKKSPGPE RLTAEFYQRYKEELVPFLLKLF QTTEKEGLLPNSFYEASVLLIPK PGKDTTKKENFRPISLMNIDVKI LNKILANRIQQHIKKLIH HNQV GFIIGVQGWFNICKSTNVIYHV NRTNDKNHII SIDTEKA FD
4926	35294	A	4967	1	1338	

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4927	35295	A	4968	1	1928	PPLVIHRQTGSGEDLQQTPTDL QLRVLTIRRKTNKQKGHPHQN ISSRRHEITKIRAELKETETQKTL QKKS MNPRSWFFERINKIDRLL ARLIKKKREKNQID\AIKNDK\W DITHRIPTETIIRREY\YKHLTY NKL\AEM\LEEMDKFLDTYTLPAR LN\QEEVESL\HRLITGSEIEAITN SLT\TKKSPGPDGFT\AEFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASIIISKPRDRTTKKENFR PISLMNIDAKILNKILANQIQHI KKLIHHHVGFIPIGMQGWFNIL KSINVIHHINRTKDKNHMIIISIEA EKAFDKIQPFMLKTLNKLIGD GTYLTYLKIIRAVYEKPTANIIL NGQKLEAFPLKTGTRQGCPSP LLFNVLAEVLVGAIROEKEIKG IQLGKEDVKLSLFADDMIVYLE NPIVSAQNLLKLISNFSEVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKT LNQKFSYWFRVKNHYIHQRTFP LKETEFNTIATLYNGASP/RTAP KSTGTNGHQASGLPRF*RIAFCS ALVSKRKLYQGYLPGQTD RR EEGVSWCPGGP
4928	35296	A	4969	2	237	QPVEDTWLSTPAAPMVDSL IAR VRVMARGNAITLPVCGRDVK/F TLEVLRGDSVEKTSRVW\SGIET YQELVTEDALDDL
4929	35297	A	4970	1	1752	
4930	35298	A	4971	1	723	
4931	35299	A	4972	1	1701	
4932	35300	A	4973	1	1446	
4933	35301	A	4974	1	403	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVA AHKGLALKGLRVLLVEV RHRV
4934	35302	A	4975	1	1374	

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4935	35303	A	4976	1	2259	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQVRGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLAL/KGLRVLLVEVHKRWS*N DEGYRHCTV***\HPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRLVIQ LNKLIICVMCLVRDCDVLKTYF HR*SGLLPIKVAFTKPHVSVHL AQDLALKGLRVLLVEPPSAPN LGIGTINVCAADVLIPTPAEL FDYTSALQFFDMLRDLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV VRETDEVGKAAPMVDSLIRV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRCDNLKTC TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKGYESFPWFIKRAHSPSRG LYSVHINPYLIPFFIGLQNRFTQF RLSETKEITNPYAMRLYESLCQ YHPLTIEKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDTDSRGS KMTIDGINSNDIYMLGYVSNLS TGPYKPLNKTGLVLQMGLDPN
4936	35304	B	4977	1	1744	
4937	35305	A	4978	1	2367	
4938	35306	A	4979	1	1215	
4939	35307	A	4980	1	946	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQVRGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGQAPCMK\LTMR SSSAPSPWML
4940	35308	A	4981	1	1572	

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4941	35309	A	4982	1	1617	
4942	35310	A	4983	1	550	
4943	35311	A	4984	1	3818	
4944	35312	A	4985	607	3777	
4945	35313	A	4986	671	3091	ARCQRVPGRPVDPDLLRCLPRAT TPAPSPAPGLVVRRLAAPVPAA APVPAAAPVPAAAPVPAAAPVP AAAPVPAAAPVPVAAAPVPVAA VPVAAAPVPAAAPVPAAAPVPA AAPVPAAAPVPVAAAPVPAAP VPRFQSPNQASTSDSPHIGQLP HQTVPISDSFHTGQSPHRTDSTP DSPHTGQLPHRTVPTPD/ELPHR TVPTPDSFHTRQSPHQTASTPDS PHIGQLPHQTVPISDSFHTRQSP HQTASTQDSPHTGQIPHRTVPT PDSFHTRQSPYRTASTPDSPHIG QLAHRTPVPTPDSFHTGQSPHRT DSTPDSPHTRQLPHQTVPISDSF HTGQSPYRTASTPDSPHTRQLP HQTASTPDSPHTRQSPHRTVPT PDSSPHQTVSTPDSPHTRQLPH QTVPTPDSFHTRQSPHQTVPPT DSPHTRQLPHQTASTPDSPTPD SPHTGQSPHQFPHQTVPADSP HTRQLPHQTVPADSPPTPDSFH TRHSPHQTASTPDSPHIGQLPHR TVPTPDSFHTRQSPHQTASTPDT PHTRQLPQQTVPADSPPTPDSF HTRQSPHQTVPPTPDSPHTRQSP HRTVPTPDSFHTRQYPQRTVPT QTASTPGSPHTKQSPHQTVPPT DCPHTGQSPYQTVSTPDSPHTR HSPHQTASTPDSPHIGQLPHQT ASTLDSPHIGRHPRQMAPTPESP HARQLPCQMAPTPDSPTLDGPH
4946	35314	B	4987	1	891	
4947	35315	A	4988	157	1990	
4948	35316	B	4989	1	2157	
4949	35317	A	4990	1	378	MSIKGTYLKVIAIYDKPTASSI LNGENLKAFLLRGTGRQGCPLY KINVYKSVALLYTTNDQGENQI NNSTPYTTAPRKIKYIGIYLKE VKDLYKENYKTLLEVIDDT/R WKHIPCSWMGRINIV
4950	35318	A	4991	1	392	

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4951	35319	A	4992	3	1570	ETDFAFVGQAGVQWCDLSSPQ PLPPVWQAILLPQPPRQGCWSG IPKWSGISEDVQVWKNCKLDL AAATGKNCLGQGEEALLTQMR TGNQREVSDWWEFVYLRSRN PLMVNSNYMMDFLYVTPTPL QAARAGNAVHALLLYRHRLNR QEIPPVRGPQWVRDGGVVLWP LGHVGPGRQLTAHGFLQTLLM GMRPLCSAQYEKIFNTTRIPGV QKDYIRHLHDSQHVAVFHRGR FFRMGTHSRNSLLSPRALEQQF QRILDDPSPACPHEEHLAALTA APRGTTWAQVRTSLKTQAAEAL EAVEGAFFVSLDAEPAIGLTL EDPAASLDAYAHALLAGRGHD RWFADK\SFTLIVFSNGKLGLSV EHSWADCPISGHMWEFTLATE CFQLGYSTDGHCKGHPDPTLPQ PQRLQWALPDHIHSSISLALRG AKILSENVDCHVVPFSLFGKSI RRCHLSLDSFIQIALQLAHFRDR GQFCLTYESAMTRLFLEGRTET VRSCREACNFVRAMEDKCKT
4952	35320	A	4993	1	1027	MPAKSPGQDVLGTDNIKIDVFK QTNQKSHTGEKPYECPECGKAF SEKSRLRKHQRTHTGEKPYKC DGCDKAFAKSGRLRIHQRTHTG EKPFECECGKSFNYKSILIVHQ RTHTGEKPFECNECGKSFHMS GLRNHRRTHTGERPYKCDECG KAFKLKSGLRKHRTHTGEKP YKCNQCGKAFGQKS\QLRGHH RIHSGEKPYKCNHCGEAFSQKS NLRVHHRTHTGEKPYQCEECG KTRQKSNLRG\HQRTHTSGEKP YECNECGKAFSEKSVLRKHQR THT\GEKPYNCNQCGEAFSQKS NLRVHQRTHTGEKPYKCDKCG RTFSQKSSLREHQKAHPGD
4953	35321	A	4994	154	331	IPAAATCMGSLG*ETPGLWA RRSVKSRGLFPGLPSPSRASVRS LLLLPAWAAFLEGIVDTRPTAW RAFPWTLFLSVFCQFLDFPETS DSQKLSLDTPSF

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4954	35322	A	4995	657	1455	PEPKPAAVAPPESPLPAGDSEG CLQPGHLLPASPRLPRPQAAS LAHRPEKSAPGADCPGRRIGR PWTCGGLSGPAAAPRPCPLAPA FAPAFALGAQRIGPGPEQGGH ERQAERPGRSRRTTRAYSARIY LPVAAEWPMGPGPEPGAGGRR RGEVPGPGAQRSPARRRRGGPA AVSSGGRGVGGLRGAVLFQHP EQQQRVPVGLAGLGAQQPAHV WRYGPLST/PPALGPPAAARGP GRRLFLPFSFSPSAGAPGAASRP SPRRSP
4955	35323	A	4996	1	415	
4956	35324	B	4997	8	211	
4957	35325	A	4998	1	563	MDPNHEEIPDLPEKEFRRVKSK NHMTISIDA EKAFDNIQHRFMI KTLISKIGIQGTHFNIIKAIYDKP TASIILNGENLKAFLRTGTSIVL EVLARAIRREKEIKGIGIGKEEV KLLLFADDMIVYLENPKDSYRK LLEQIKEFSKVSRYKINVQKSIA LLYANSDAQENQINNPTSFTIA AKNLIK
4958	35326	A	4999	667	960	
4959	35327	A	5000	317	1157	EFRMDPAIALVLALS LTVPKLT VPDSPLRLYRSFCTSACTSNLV VHFA*KEKWPDV*LYTDSWAV ANGLAGWSGTWKKHDKIDD NEIWGRGMWIDLSEWSKTVKIF VSHESAHHIT*KSSAEEDFNNQ VDRMIHSVDTTTRPLSPATPVITQ WAHEQSGHGDRDGGYAWAQQ HGLPLTKADLAMVTAECPICQQ QRPTLSP*YGTIPRGDQPATWW QVDYIGPLSSWKGQRFVLTGID/ TSGYEFAYPARSSANSTIRGLM ECLIHGHHGIPHSIASNQLYS
4960	35328	A	5001	2	15246	

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4961	35329	A	5002	1	951	MALALNRYL/CLAVLPLITKCA PLFAG/TEHRAIMVDSMLHTVY R/LSRGRSLTKAQRDVIED/CLM SLC\RLLRRLVFDVPILNEFA/K MPLKLLTNHYERCWKY/YCLPT GWANFGVTSEEE/LHLTRKLFW GIFDSL AH/KKY/DP ELYRMAM PCLCAIAG/ALPPDYVDASYSSK AE/KKATVDAEGNFDPRPVET/L NV/IPEK LDSFINKFAEYT/HEK WAFDK/DKEIYRWPIKESLKAM I/AWEWTIEKAREDLDPREGYN PQPPDL SAV/TLSRELQAMAEQ LAENYHN/TWGRKKKQELEAK GGGTHPLLVP/YDTLTAK EKAR DREKAQSY
4962	35330	A	5003	273	478	
4963	35331	A	5004	2	622	GAPRSLSEKERQLMGMINQLSS FREQLLHAHYEQK KLAASQIEK QRQHMKLGKQ/QQEQIARQQQ RLIQQQHKINLLQQQIQQLYAA QLAAMQVSPGGKLP GIPQGNL GAAVSPTSHTDKSTNSPPPKSK TCCLLLWEDEHSAS IPEVTNQQI HLHLASSITDHGGKVIWERCLE ESGKGV TGFPDWS PRWGRIPPE GSKEGFTKE
4964	35332	A	5005	3	512	
4965	35333	A	5006	1	642	MHAQTYAHTDTRAQPCTSM EK QVSLKPTEEAHKKERKPQKPG KYICQYCSRPC/AKPSVLQKHIR SHTGYG/CEMPHGLEMERIPG EEFEPTEGESTDSEET SATSG HPAELSPRPKQPLLSSGLYSSGS HSSSHERCSLSQSSTAQSLEDPP PFVEPSSEHPLSHKPEDTHTIKQ KLALRLSERKKHQVIDRLGSGI LAGLSWQLLPQGEAL
4966	35334	A	5007	341	1020	TLNRRQG CCLGSWLTRSN GILL FEISRPTYLPILLILFLVKR/HKL KMSVLNMVVRHDPGSTESAKA KEELIFRCRSRHFRASPLFSQHA AADKHKFQRFLTADMALAVTV YAPTTFPSSLLL FKKQSNGMH NLIATGHLLLVDPNRMVIKRVV LSDPPFKICTKMAVVCYMFNR EDVQWFKPVELRTKWSRRGHI QEPSGTHGRMKCSFDRKLKSQ NTELMNLYK

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4967	35335	A	5008	1	847	EKAQALEDLAGFKDPAPGHTESMTHDKTTKIPCKSPPELVDTATSSKKWPRACGQKVEVKEELAVGKLTQTSGETTHTNKEPEGEGKGMKAFKQPAKQKLDPENVTGSRRLPRVPKEKAQPLEDLASFQELSQTPGHTEELANGADSFTSAPKQAPDSGKPLKISRRVLQAPKVEPVGDLVGTR/D/PVKSQSKSNTSLPPLPFKRGCGKDGSVTGTKRPHCMPAPEEIIIEELPASKKQR/VVAPRVRGKSPEPLVIMKRSLRTSAKRIEPAEDLNSNMKTNN
4968	35336	A	5009	9	1094	IRHEEESMTDDKTTIIPCKSSPELEDATSSKRRPRTRAQKVEVKEELLAVGKLTQTSGESTHTDKEPVGEGK\GTKAFKQPAKRKLDAEDVIGSRRQPRAPKEKAQPLEDLASFQELSQTPGHTEELANGAADSFTSAPKQTPDSGKPLKISRRVLRAPKVEPVGDVVSTRDPVKSQSKSNTSLPPLPFKRGCGKDGSVTGTAKRLRCMPAPEEIVEELPTVSKKQRVAPRARGKSSEPVVIMKRS\RTSAKRIEAEELNSNDMKTNKEEHLQDSVPENKGISLRSRRQNKTEAEQQITEVFVLAE RIEINRNEKKPMKTSPENDIQNPDDGARKPIPRDKVTENKRCRLSARQNESSQP
4969	35337	A	5010	1	459	MAKPWRALCILLRSLDSFLQLSASLTCFGFMHNTYKNRPWGVLRSSSTERSPRKGTAGDMRAGGRFNAPLIGQDLLFKEHFASKALDTCTNIARSAKTQGGPVAAILLLLAFGPCIFNLRVKFVSSRIKAIKLQM/RLTIYRGPLDRPAGPSTGL
4970	35338	B	5011	1	687	
4971	35339	C	5012	194	418	
4972	35340	A	5013	17	396	
4973	35341	A	5014	1	70	

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4974	35342	A	5015	1	994	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRDIIICQ IAYARIEGIMIVCAAYAPELPK\ YGVK\VGLTNYAAA\YCTGLLA GPAGFFHRFGMDKFYEG\QVEV TGDEYNVESIDGQPGCLHPAY WDARPLPRTSPLAIKVFWLP*R GA\VDGGLVLFPPQYPNRFPL WIPESQGNLNARRYHREGTIHG PRIVAGLHAPTLMEEDEDAYK KQFVRQYVKN\SVTPDMMEE MYKKAHAAIR\ENPVYEKKPK KEV\KRKRWNRPKMSLAQKK DRVAQKKASPLARAQERAAEKL NQTIFYKDFSDIAN
4975	35343	C	5016	27	308	
4976	35344	C	5017	68	307	
4977	35345	A	5018	388	1485	
4978	35346	A	5019	3	1940	RDRMILLKMEQEIIDFIADNNN HYKKFPQMSSYQRMVLVHRVA AYFGLDHNVDQTGKSVIINKTS STRIPEQRFCEHLKDEKGEESQ KRFILKRDNSSIDKEDNQSVCS QESLFVENSRLLEDNICNETYK KRQLFRGNRDGSGRTSGSRQSS SENELKWSHDQRAWSSTDSDS SNRNLKPAMTKTASFGGITVLT RGDSTSSTRSTGKLSKAGSESS SAGSSGSLSRTHPPLQSTPLVAG VAAGSPGCVPIYPENGIGGQVA PSSTSYILLPLEAATGIPPGSILL NPHTGQPFVNPDGTPAIYNPPTS QQPLRSAMVGQSQQQPPQQQP SPQPQQQVQPPQPMAGPLVT QSIPAKKELNAFRVRNQEQRDT GTLHEGSGKISRMVLGWEPLSP YAPDRDDVATQFGQMTLSRQS SGETPEPPSGPVYPSLMPQPAQ QPSYVIASGTGQLPTGGFSGSGP PISQQVLQPPSPQGFVQQPPPA QMPVYYYYPSGQYPTSTTQQYR PMAVPQYNAQRSQQMPQAAQ QAVLEVLSPLVSTVMPKLA VL VMAGFRLRLELSESVLLQALW WSDHLSSFSELLCRLPDVLPES LLPLEYDHQKDAQGQDYLTCLM VLVTLLESPTGIQEDDSNEISVI

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4979	35347	A	5020	3	1353	GDAYALVLRVTLYCGKCHNE VVLAPIFEILSTESIQDQLPYSV MLMSMLAITEGRRSFSVSVENA CSNYVTTVQVKEVNQMHISPN SCNAIHPRDHILEISGTPHTLQ VEELEDASQMSQTLLLLIEHDP VSRSPAQLRLDAWLSPHTQNA GHPHALSTLDTKDNLEGLRRC SLRLSNSISKSPSPSPKEPLLS RDISCWESLCCSSTYSKQNFRC DLIHGEVLGKGFFGQAIKVTHK ATGKVLVMKELMRCDEENQK TFLTEVKVTLPSNLLPPGHDL QTGAREQTGILKTGGLSVPGGA GHPAACRAGGVGPHCEHAVRP DPRLTPLALAQPPAGGCSTASIA PLFSIPAVSRVFRASRGAAACLE AEQAGRTILTCEVCKLVVGLSL DSQQQLSSVLCGWLCCLSCPQL WSLNRHPQHQHHLVEMQNLS HPRPGETESAL
4980	35348	A	5021	1	588	MEYPDGGSTLDLLEPGPLDETQ IITILREILKGLDYHLSEKKIHRG VKAANVLLSEHCEVKLVDFGM AGQLADTQTKRNTFVGTPFWI APENNPPTLEENYSKPLKEFVE ACLNKELSFRTAKELLKHKFIL RDTKTSYLTIDRYKRWRA KQSQEDSSSDSNSETDGQDSIG GSDSGDWIFTIQEKDPKNL
4981	35349	A	5022	1	1380	GPRASPPRADRRGPAVPSQEVA VLSAMAHSPVQSGPLPMQNKL ADPEELFTKLEKIGKGSFGEVF KGIDNRTQKVVAIKIIDLEEAED EIEDIQQEITVLSQCDSPYVTKY YGSYLKDTKLWIIMEYLGGGS ALDLLEPGPLDETQIATILREILK GLDYHLSEKKIHRDIKAANVLL SEHGEVKLADFGVAGQLTDTQI KRNTFVGTPFWMVPEVIKQAG YDSKADIWSLGITAIELARGEPP HSELHPMKVFLIPKNNPPTLE GNYSKPLKEFVEACLNKEPSFIP TAKELLKHKFILRNAKKTSYLT ELIDRYKRWKAEQSHDDSSSE DSDAEVTDGQASGGSDSGDWIF TIREKDPKNLENGALQPSDLDR NKMKDIPKRPFSQLSTIISPLF AELKEKSQACGGELGGPLKEL RGAIYLAEEACPGISDTMVAQL VQRLQRYSLSGGGTSSH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4982	35350	A	5023	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAAKSKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQ GAL
4983	35351	A	5024	67	599	SAAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLAK KPKKGKPHCSRNPVLVRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLRLNLQNQVG GDKN\GGTR/VGLNFRKMPRIY PTEDVP\RKLLSHGQKNPFSQH V/REKLRSITPGTIL\ILTGRHR GKRVVFLN
4984	35352	A	5025	101	202	PVPGTSSCTDRYHYKKH**KIN TKLVSKYILNM
4985	35353	A	5026	2	562	LRTVPDLPGRFRAMRTGQRR* PELPPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVV SVCTATGAWNWLIDPETQKVS FFTSLWNHPFFTISCITLIGLFFA GIHKRVVAPSIIAARCRTVLA EY NMSCDDTGKLILKPRPHVQ*QS SLIVMGLRIAFLRISDTAKSHKG FLLRLDM

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4986	35354	A	5027	1	2090	MGAVFFMLFSWWITSGHIQLLC TRRRATVSTHQEFVVTVPFSL GLVVSGLDADTAMPGSAEEQ FQWQSQDGQKDIEDELTTGLEL VDSCIRSLQESGILDPQDYSTGE RVIHFGKTLGLSSEDYSIMEKG QMVKEVTVTPQVSVLKANETM ASALCGQEGHDDPLLLTVQMS TGNHYIKDNSLFPWVKWPSLLS QSALQLNSKPEGSFQYPASYHS NQTALGETTPSQLPARGTQAR ATGQSFSQGTTSRAGHLAGEP APPPPPPPREPAPSLGSAFHLPD APPAAAAAALYSSSTLPAPPR GGSPLAAPQGGSPTKLQRGGS PEGATYAAPRGSSPKQSPSRLA KSYSTSSPINIVSSAGLSPIRVT SPPTVQSTISSSPIHQLSSTIGTY ATLSPTKRLVHASEQYSKHSQE LYATATLQRPGLAAGSRASYS SQHGLGPELRLQSPHHIDPI YEDRVYQKPPMRSLSQSQGD LPPAHTGTYRTSTAPSSPGVDS VPLQRTGSQHGPQNAATAFQ RASYAAGPASNYADPYRQLQY CPSVESPYSKSGPALPPEGLAR SPSIDSIQKDPSKYILCDGGNPF CALVYRPSSRERASSL/LKSMCY Q*NRLYPKFRRVLGSGFEGMQ RRFCASKGIKGRFCGSSLEQDC EHGGQHPCYPKLVPTLWNPHQ REGNQKNSERV
4987	35355	A	5028	123	3825	
4988	35356	A	5029	1	593	MQVCSSGGRILRVSGTERQLRR EGGRFCLGRGVRNLREGGALR APFTAPSLTALPPDIVDIKPAN MEDLTEVTTASESHPHHCNLFV YSSSKGFLRLCDMRAAALCDK HSKHPCDDIGPIQIIGHLRTSR GWMILPALQSTFRCRMDEQNL RAFLAPRLCDFSTSQPQPGSPEQ PVMSGILSPWTKPSRSSVFSM
4989	35357	A	5030	1	894	

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4990	35358	A	5031	1	3115	RQICSMASELGARDDGGCTELA KPLYLQYLERALRLDHLRQTS AIFNRNISSDDSEDGLDDSNPLL PQSGDPLIQVKEEPPNSLLGETS GAGSSGMLNTYSLNGVLQSES KCDKGNLYNFSKLLKSRKWLK SILLSDESSEADSQSEDDDEEEL NLSREELHNMLRLHKYKLLHQ NKYSKDKELQQYQYYSAGLLS TYDPFYEQQRHLLGPKKKKFK EEKKLKAKLKKVKKKRRRDEE LSSEESPRRHHHQTQKV
4991	35359	A	5032	1	1522	MVAQASGQTIREAEVGGSLTA QEVEATSILLSDESSEADSQSED DDEEELNLSREELHNMLRLHK YKLLHQNKYSKDKEWMSQLA ALNYLAGGDEQKLLDLSYSP QNRQPAMAKAHNNNNNNNNNN NNNNHNKNPKRLLDERELTY STATQSFDTRNTRSFDEDAKES RAAALRAANKSGTGFGESYSL ANPSIRAGEDIPQPTIFNGKLKG YQLKGMNWLANLYEQRRLRL RFLQLEQEHTCPQEGRAERLRG QPLKLWALLHFIMPTLFDSEEE FNEWFSKDIESHAENKSAIDET KLKKVKKRRRDEELSSEESPR RHHHQTQVFAKFSHDAPPPGT KKKHLSEQLNARRRKVWLSIV KKELPKKTLYTQDAPFHVVITS NQLVVQDVKYFQRVKWQYMV LDEAQALKSSSLTRSNARYPL VSSQRKIHDQQVTTDKSSKMDP KEEEYIPAKHEMENTKLQFYLS AIGEKQVRWKILLQFQCRNRL LLTGTPIQNTMAE
4992	35360	A	5033	1	974	MGFHHVARAGLELLTSGMCCY FAQDLRPEQSIKASLRQILRKY EKCGHHNLQKKGYKSVDEYK VHKGSYNGFNQCLTTTQSKIFQ CDKYVKDFHKFSNSNRHMTK NPFKCKEKGKSFVLSHLTQHK RIHTTVNSYKLEECGKAFNVSS TSLQHMRIHTGQKHYYQCGEM GIAFNKSSHLNTHKIIHTGEKSY KREECGKAFNISSHLTTHKIIHT GENAYKCKEKGKAFNQSSLT RHKIIHAGEKPYICEHCGRFV QSSNLTCHKRIHTGDKPYKCEE CGKAFNVSSLTQHKRIQQQQQ QTIKQTKNLLNNNNKLLWV

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4993	35361	B	5034	22	684	
4994	35362	A	5035	1	1338	
4995	35363	A	5036	1	596	MGMTDMGKSKKKSQGPSPFP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETA VINHKKRKNSPRIVQSN LTEAAYSLSRDQKRMLYLFD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPFTQM GQD
4996	35364	A	5037	787	1692	
4997	35365	A	5038	289	1338	
4998	35366	A	5039	982	1347	
4999	35367	A	5040	1	780	
5000	35368	B	5041	148	334	
5001	35369	A	5042	2	545	
5002	35370	A	5043	1	732	
5003	35371	A	5044	1	1110	
5004	35372	A	5045	1	1170	
5005	35373	A	5046	1	870	
5006	35374	A	5047	1	1254	
5007	35375	A	5048	614	1236	TARVAAARRRCQCWGSACGS ALTLPRTSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSPVPTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5008	35376	B	5049	1	1281	
5009	35377	A	5050	2	893	
5010	35378	A	5051	1	1416	
5011	35379	B	5052	49	768	
5012	35380	A	5053	1	792	
5013	35381	C	5054	1	1461	
5014	35382	A	5055	887	1203	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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5015	35383	A	5056	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLEAACHSDSDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRRLHR PQQSPPLGIPHSLL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5016	35384	A	5057	1040	1477	
5017	35385	A	5058	1	1422	
5018	35386	B	5059	1	1404	
5019	35387	A	5060	353	870	AWSSPRSRCPLHSRTPSLPRVEG QAHIGPGL/HRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVA RHRVQFAMPESDAVAMLKQLS
5020	35388	B	5061	1	1612	
5021	35389	A	5062	2	429	WGHWASPRLWWAWGSPGPAG LKPPGTVAASTGFSQWLLYIETI SRTPVELELKNSKVRKDVLS/R GPHSLYLVDQAQLEHAMEIAK VSVQALQAYRAPPRMEQANP KTPPDANLYKKGPSPPRRANT TRLGSRATKTIHPDS
5022	35390	A	5063	508	1007	PPLAQKQAVASQSHSPCGGFHR RWFRMRLTGEIMKIITCFKLVP EEQDIVVTPEYTLNFDNADAKI SQFDLNAIEA\ASQLATDDDEIA ALTVGG\SLQNSKVRKDVLSR GPHSLYLVDQAQLEHALPLDT AKALAAAIEKIGFDLLIWTSSRI QAVALASPLSNT

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5023	35391	A	5064	1	1670	MNIEFFDPPRIVSGLTLNRINIQH PFHLTGIRYCIDERQRTVNDVL QAHAGRVLQQYLPAPATATFR CQSRNRTENPQFLVCQWAGED QITQLLQEQWRVLIVMIFRTHN HMAGPRRWFRMRLTGEIMKIIT CFKLVPEEQDIVVTPEYTLNFD NADAKISQFDLNAIEAASQLAT DDDEIAA\LTVGGSLLQNSKVR KDVLSRGPHSLYLVQDAQLEH ALPLDTAKALAAALEKIGFDLL IFVKGTCVLVLLVAFGLVTTHFQ PCLFGVQNGEQETVQILLVGVV GGMERAERIIIPFTLAINNQPTT RLTKTIAQGMPIIQRNIPNPRIS LQPAPTPRHSANPATMQPHAQ ATPTPKPHTRTYPTRPPHPQRSA TPGTQRTPTPGPQTARDRAKPK DHTRPQTAHTAHTSNDPQQR HRTQRHTNKQHPHPAPRLPT LPQNNKRQKPAESDTRKHHTP HMRQPTAHAETARNTQAAQH CHTQNTQPANRHATGDRPEHH QARDRTRIDPKPNPDPTITGHT KGTTYAHKHTPLATHHMRPT TGRHGHGTHH
5024	35392	A	5065	548	924	GLLRPRFSVNSPHFNTWLLSAN SINWR*YGFMPSSLILL*LNPM GRYSGASLVSRMASTTLPGHS IAMRQPVCGIFALTRAIISI/AM WDFHVEDFMPERMA\NLVLNS AI*LPKIFPARWMKFS
5025	35393	A	5066	33	424	CRFDESFWCDA\HAIFVAPTLY AYDFYADKTLVPLTDALANTW QKQFPLDYGKGRLWGSVAFVI GSALTGKLVTFMDYRVILALLT LGVASMLLGFLIRPTIQPGASL QQESTGWSAWLALVRQNWRF LA
5026	35394	B	5067	1	265	
5027	35395	A	5068	142	609	CLFRQVSAPHITRVCITRSAATI QTIDLNNLD\TGDLQPAFPPVW LISPGPFHPTPSVTRVPLEKEIRT FAQRLSVLHGINAPEFFDKPLFS SLVLT\LRDEGYISDSGDAEPAE TMKVYQLQTNIVIIHKCFKAGF TLAVGNQFLLINKQRASHQN

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5028	35396	A	5069	983	1387	LVWKVIPWRPAWKITLCVLNS CRRACLFAPAT*TANRLQAVC/ WLQSANPSINRGTTLEKESRTVA QRLSVLHGINAPEFFDKAVFSSL VLTLRDEGYISDSGDAEPAETM KVYQLLAELITSDVRLTIESATQ GEG
5029	35397	A	5070	1	1815	
5030	35398	C	5071	1	354	
5031	35399	A	5072	1	678	MTDKQQGEKQKQKTEDKTKT KQKQRKNKTDKRRKTKTERNT QRTPERQNTNTNQTRTKQ/RRPD TGVTDQADTRQDTSARRLMRQP RSAAAWMAALRGARDPKLITM VPHSKISRSIVRKGLPMTETQRR TETSKNYRPREQQTRNRQQQD PRQQRTVQTHQQEERRETKDN NHTTKPHETLARRHRRHNIHAL AAADLVIEAASEVWKSCKRSL HSWRKFAPTNAIDH
5032	35400	A	5073	93	729	SADPRNRDTRAAKFTRDAGK TDC*NL*THIETPDGDRYSRAG SCGPG/PLKRRRLNVWKSCKRSL HSWRKFARHKRY*PLTLRQSLY TAIAAEIKNPERVAGLHFFNPAP VMKLVEVVSGLATAAEVVEQL CELTLSWGKQPVRCSTPGFIV NRVARPYSEAWRALEEQVAA PEVIDAALRDGAGFPMGPLELT GPDWAGPPFCCHLFGV
5033	35401	A	5074	145	1038	SILRLRQKRKQLTAYDFADNCD KALY*RNHRLIREILALVCAHD RQKK/YLPSLAGFL*LKNEINRL SVRGW/SRRRSFSVR*/PFTNTD RARSHFYQFVIIDELQSLFQSHA DRRNQNNGFVSTGSHVGGFL TGQAVYSQVVRAAMNTDNLTF VNFCTVTEEQLTAILQTEQRER DRFTLTVRDQYAVLTLTHFTRT YVVVVAEGGVQQTSTGSHGHE LRTEANQTTAWDHVVETAAAF TVWIHVQVALTFAQRLHYRT LMLFFNVQSHVFIRLLFTTVDF EDNFRRTGYRQFETFTTH

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5034	35402	A	5075	39	4329	YAPATFSAATQPTPKKINNPVP RNSAMHWQTRIQAQANGYWL EREQWLA VGEQWFWRMESG PHRAAAGRLCHHHGNDATWH RG*FHLCFRPCV**RIEQPQEGY AIIMETTPPGTG VNFIVSDPAF DKGYAFDFFCLEPMSHAPDDH HRPEGGLIALAPGESTTSEMS LRVPVANCAVTTASLDSYYGE AMAIGERAPVALLDFAASARL AVGEALTNIAATQIGDIKRIKLS ANWMAAAGHPGEDAGLYEA
5035	35403	A	5076	1	625	MRASGTDEAVVLVPPIMRTLEQ ALEFIDDELVEGAAAFEALE MMGSGRDRE\RYGEGSPWFDI \VLP CGGGITLTLHKLR\SAQPLL \AVLNRLEQKKPVGLRYDPQAQ SLVCLPTQTRTGWNLNGFEASI THRALRTSRYDGQYYCQGPRT LTIRRTVIMTGSSDPHDTTDSNN DRVLGPSRYDGQYYCQGPRTL TIRRTVIMTGS
5036	35404	A	5077	3	516	ATLSCEVVLENLAASPVVTTLE YTLFDGERVVHSSAIDHLAIEK LTSASLAFTVEQPQQWSAESPY LYHLVMTLKDANGNVLEVVPQ RVGFRDIKVRDGLFWINNRYV MLHGVNRHDNDHRKRRGVGM DRVEKDLQLMKQHNINSVRNA HYRKRRNKEVRTKKKIESIEEK
5037	35405	A	5078	3	678	ASYCYTRN\DELVAVCDSRLS QRQALAEKYGNASVWDDPQA MLLAVKPDVVSVCSPNRFHYE HTLMALEAGCHV\QAREM/CD TARKLGKVLAYDFHHRFALDT QQLREQVTNGVLGEIYVTTAR ALRRCGVPGWGVFTNKELQGG GPLIDIGIHMLDAA\MYVLGFPR /SVEDSLCGTIELHSGCILWLETS FALNIREHAIMNIRFCGDKAGA SVFPAHIYTATQR
5038	35406	A	5079	2	294	YSFMV/PIFGRRWTVFSTAIL/I PCVWLGIQVQNPNT/PFGIFIVIA LLCGFAGAN/FASSMGNISFFFP KAKQGA/PVFAF/LGVNGVPQA DGSVMSLAMPH
5039	35407	A	5080	1	834	
5040	35408	A	5081	2	135	QYASALVSTAIALLLVCLAFLY PAANSEIHLGVLSIFWGDPDG

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5041	35409	A	5082	1	324	MQGGYNIHPLIDALDDAKLAPI AAKALSHTLLMFDNFYDVEEK AKRGNEYA\QVMQSWAD/AEW FLNRPALAEKLTVTVFKVTGET NTDDLSPAPDAWSRPDIPLHAL GC
5042	35410	A	5083	1	866	MGLAQAKLLIEAPVNGGRNRYN GPKVAKFLVGGASLNDVYLHQ HDKYRYDRYHLIRNREKTHIM PEWVTQNIMNGRGVNRLLDDVN RPKSPEIKNDIRLFRQELRDAAY HFQGDADNDQLSVTPLVGLGK SSLLIK\TIFHRMRWAEQNLSICS SSFNRPAIFVRNIIQLLREGKKV EITVGDKHENDFYIPEDEPFKIIG ALPYLYEINLRRFLSRLQYYVN TDQLVVRVWKEDDN\TYHLAK GWWGDDKWMVITG\NKLDPR AWRLDLENAILHDPQLELAPQ REKELE
5043	35411	A	5084	1	3483	VMFFFLPGLLMASWATRTPAIR DILSVSIAEMGGVLFGLSIGSMS GIL/SLGVVSETLWDT*C/HSWS RCPAH*SG**Y*/VLALWLTSPL LFAVGLGVFGASFGSAEVAINV EGAAGEREMNKTGLPMMHGF YSLGTLAGAGVGMALTAFGVP ATVHILLAALVAQIAAWYKAL QEIPDFIPRAPQRQMIADVAK TLAGEEGRHLAIEAPTGVGKTL SYLIPGIAIAREEQKTLVVSTAN VALQDQIYSKDLP
5044	35412	A	5085	1	848	MLVGKVVVSEGAFRTHGAVD TSKAYVSLENSGWTIIADITTTN QNTLLNLANLAMSDANVIMMD EPVTRSSVTASAENFITLTNTL SGNGNFYMRTDMANHQSDDL NVTGQATAGDSLTLVTTGGGD AAFTLGNAGRVFDIGTYEYTL DNGNHSWSLAENRAQITPSTTD VLNMAAAQPLVFDAELDTVRE RLGSKVKGVSYDTAMWSSAINT RNNVTTDAGLRAQAIKTVHHR QNRLIHFSLNGSTFNVYRHFRR TKTCPKDAETNGKEQGRCQPE CQT
5045	35413	B	5086	75	1777	

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5046	35414	A	5087	1	860	MKAPGLPADQQFFADLFSGLV LNPQLLGRVWFASQPASLPVGS LCIDFPRLDIVLRGEYGNLLEAK QQRLVEGEMLFIPARAANLPVN NKPVMLLSLVFAPTWLGLSFY DSRTTSLHPARQIQLPSLQRG EGEAMLSALTLSRSPLQNIQ PLVLSLLHLCGSVVMPPGNSQ PRGDFLYHSICTWVQDNYAQP LTRESVAQFFNITPNHLSKLFAQ HGTMRFIEYVRWVRMAKARMI LQKYHLSIHEVAQRCGFPDSY FCRVFRRQFGLTPGEYSARFQG
5047	35415	C	5088	86	601	
5048	35416	A	5089	1	870	
5049	35417	A	5090	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEE/EEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEAKTQ
5050	35418	B	5091	1	552	
5051	35419	A	5092	2810	3117	LTLNSHMAPALIPILAMSAPMT PMKN/LSQVHAQGLVIRDLPLIA SNFRNTEDLSSYLKRHNIVAIA DIDTRKHAACA VPNTLVARGL RKHLKRVAAPQHWIAG

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5052	35420	A	5093	2	1902	LKYPMKRVGKRGEKFERISW DEALDTISDNLRRLKDYGNEA VHVLYGTGVDGGNITNSNPY RLMNSCGGFLSRYGSYSTAQIS AAMSYMFGANDGNPDDIANT KLVVMFGNNPAETRMSSGGVT YYVEQARERSNARMIVIDPRYN DTAAGREDEWLPIRPGTDGAL ACAIAWVLITENMVDQPFLDK YCVGYDEKTLPANAPRNAHYK AYILGEGPDGIAKTPEWAAKIT SIPAEEKIQLAREIGSAKPAYICQ GWGPQRHSNGEQTSRAIAMS VLTGNVGINGGNSGVREGATG SAVGEVVFNTSMTGYQEILTD LPNPSNRYSSYPILAMSAPMTP MKN/LSQVHAQGLVIRDLPLIAS NFRNTEDLSSYLKRHNIVAIA DIDTRKLTRLLREKGAQNGCIA GDNPDAALEKARAFPGNG MDLAKEVTTAEAYSWTQGSW TLTGGLPEAKKEDELPHVAVY DFGAKRNILRMLVDRGCRLTIV PAQTS AEDVLKMNPDGIFLSNG PGDPAPCDYAITAIQKFLETDP VFGICLGHQLLALASDVEKNVV MITAQNHGFAVDEATLPANLR VTHKS/LFD RYVTGHSSHR*TG FSFQRHPEASPGPHDA/AP/LFD
5053	35421	A	5094	8	456	
5054	35422	A	5095	377	1228	KQARGRLCPAKPQGWSCPRPW QPTFC/GQC DLKVRPGVIGDHF GALKFDCPTGFRITCLGRITPLFL PSSPIWNGCIFPIVPGGDCGEG VQIRSLSCMVHSGSISHAAGRV EDALCGEMPFQDSILKQLCSVP CPGDCHLTEWSEWSTCELT CID GRSFETVGRQSRRTFIIQSFEN QDSCPQQVLETRPCTGGCSPQA RPAAIRQCIPACRKPF SYCTQGG VCGCEKGYTEIMKSNGFLDYC MKVPGSEDKKADVKNLSGKNR PVNSKIHDIFKGWSLQPLDP
5055	35423	A	5096	1	519	

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5056	35424	A	5097	1	743	MCPAIDAVLVYVNRKWTNLSDPMPVGQMGTVKYVLMSPATTASYIQLDFSPVVQQQKGKTIKLADAGEALTFP/RGVMPKA/PPQLVPATFLSAELALLQKSFHVNIQDTMIGELPPQTTKTLARFIPEVAVAYPKSKPLTTQIKIKKPPKVAMKTGKSLHLHSTLEMFAARWRRKAPMSLFLLEEHFNLKGQHSLHENQLQMATSDDRGN/YTGFITSYLEEAYIPVVDVLQVGLPLPDFLAMNY
5057	35425	A	5098	2327	3435	KTTTLEDNLGNTIQDIGPGKDFMMKIPKANATKIKIDEWDLIKLKSFACTAKATTKRVNKKQDESLRSHYE*WGMLTDCVVMRDPNTKRSRGCGFVTYATVEEVDAATNARPHKVDGKVVEPKRTVSREDSQRPGAHLTVKKIFVGGIKEDTEGFAFVTFDDHDSVDKIVIPKYHTVNGHNCEVRKALSKQEMASASSQRGRSGRGGGFGGNENFGCGGNFSGHGGFGGSHDGGGYGGSGDGYNGFGNDGGYPGGGPGYSGGSRGYGSGGQCGNQDSGYGRSGSYDSCNKGGRGGFGSGSGSNFSGGGGSYNDFGNYNQYSNFGPMKGGNF/GGRRSGP*GDGGQYFAKPPNHSGYGGSSSSSS
5058	35426	A	5099	1	636	MRDPNTKRSRGFGVTCATVEVDAAMNARPCVVGRVTEPKRAVSREDSQRPEDTEELHLRDYFEQYGKIEVIEIMTDQGSKKRGFAFVTFDNHDSMDKTVIQKYHTVNGHNCEARKALSKQEMARASSQRGRSGSGNFGGGRGGFGGNDNFGRGGNFGHGGFGGSHGGGGYGG/SGDGYNGFGNDGGGSYNDFVNYNQSSHFPGM
5059	35427	A	5100	1	3622	MTGICYTEDERSYKKNAQPTAASKKQKETQKFCLRVDGQQKVKLSVLQEKSQTLTVQLKSQKFLGHPTAGRGRSELCLDLPDPPEDPVALETSSVGTWVRERDLGMPDGEAALAAKVAVLETQLKKALQELQAAQARQADPPQAWPPPDSPVVRVDTVRVVEGPREVEVASTAAGAPAQRAQSLEPYGTGLRALAMPGRPESPPVFRSQEVVETMCPVPAATSNVHMVKKISITERSCDGAEMKWEDQNIGD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5060	35428	A	5101	1	782	MRRRLQLDLSLLHPPSCFSSTLK CGKAAAAACDSSDQIQLERLQT GHLPCASHTICPPNHHSQSTLR PPLPPP\HNHTLSHHSSANSLN RNSLTNRRSQIHAPAPAPNDLA TTPESVQLQDSWVLNSNVPLET RFWCCQRFLVFPGLQLQHLTLS LPVWSHGALPVSLCIFTWLSSH KDTSHFGLRVHLLSLPLEAKYS FYPGCPVLEPAPNPLKGPWCLW GVGTFRRYCTTFLFNESEPKDL VGÉKFKSDRLCREAHLQE
5061	35429	A	5102	3	1864	
5062	35430	B	5103	1	525	
5063	35431	A	5104	2	351	RPAVGAEKSNPSKRHRDRLNA EVDHLASLLPFPPDIISKDKLS VLRLSVSYLRVKSFFQVKRQRR EIHGRNCQKKRNQNLKDRGWQ WQMPKMWMTTRANEGPCRSG GPEHWTPRP
5064	35432	A	5105	1	375	RPLQKQRPVGAEKSNPSKRHR DRLNAELDHLASLLPFPPDIISK LDKLSVLRLSVSYLGVSFFQG QGLAVADAEDVDDHTGERRP MSFRRPRALDTQALRRRTQFGLH LLMVNIAGLIATDRL
5065	35433	A	5106	407	910	NVTPAHYDEQQNFFAQIKGYIR CILFPPDQFECLYPYPVHHPCYR QSQV*LDNPDYERFPNFQNVVG YETVVGP GDVLYIPMYWWHHI ESLLNGGITITVNFYKGAFTP KRIEYPLKAHNKVAIMKNIEKM LGEALGNPQEVGPLLNTMIKGP IQLACQGSRPPAR
5066	35434	A	5107	237	908	HEKPGRQRETRSQNHHHHHHH HHHHQEKIRIQTFTERP*EDTER SDCPQAKKRSPRRNQPC*HLDF ELPAARAATQPVNSGARAGRA GATVPRHTATLLLLHQRRDYA GGS LCDIDRAPDAKQGGKS*ES ETDSRFWKGTVC*DHTAGWVH GRPTTPHHSSPDSRNGGFQLHQ QIALAAGWREGASRPKQEPLQP GPEQQQRRGRREP VQ GKAPSG HQS WPAE

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5067	35435	A	5108	57	873	SGLCTAAFHHQMEVVHT*SVSS RS*RPTTPVIAQWAHEQSGHG GRHGGYAWTQQHGLPLTKAD LAMATAECPICQQKPTLSPRY GTIPQGDQPATWWQVDYIGPL ASRKQGRYGFAYLARNVSAKT TIHGLMECLIHGHHGIPHIIASDQ GTHFVAKEVRQWAHAHGIHW FHHVAYHPEAGGLTEWWNGL LKSQQLRQLGDNTLQDWGKVP QKAMYALIQCPIYGIVSPIARIH RSRNQGVKVEMAPFTITPSDPL AKCLLPVLVTLRSAGL
5068	35436	A	5109	1	311	QITMQPELPIMNWVLSVPSSHK MGHAQQH/QEVAQMPRVSTPA TLPSLPQPALMAPWTVPYDQL MEEKARARYAGTIQKWTAA LQPLSRTSLKDSGEGTSKW
5069	35437	A	5110	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWT VALQPLSGTSLQDSSEEKSSQW
5070	35438	A	5111	1	582	
5071	35439	A	5112	1	635	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5072	35440	A	5113	2	1538	FFPIGFWRQHIPRLSVLLQHIY* VT*KAASFEGWPKQEKAL*QV QAVVQVALPLGPYDPADPMLL EVSADKDAGCSLWQAPICES QWRS LGFRSKALPSSADNYSSF ERQLLACYWALVETECLTLGH QVTI*PELPIMNWVLSDPSSHKV GHEQQHSIIKWRWYICDWAVV GRESTTNGLAGWSETWKKHH WEMGEKQIWGRSMWMELSEW SKTVKIFVSYVSAHQCVTSTEE DFNNQWDGMTCSVDTTTHPLSL TTSVIAKWAHEQSDHGGRYGG YAGAQQHGLPLTKADLAMTTA ECPICQQRPSPQYGTISQGD QPATWWQVDYIGPLPSWKGQR FVLTVIDTYSYGFAYPEHNTS AKTTVNGPMECLIHRHGIPHGI ASDQGTRFTAKEVWQWAHAH GIHWFYYPVPHPEAAGLIGWW NGLLKSQQLQCQLGDNTLQGWG KVLQKAVCALNQHPHYGTVSP VARIHGSRNQGV E V E V A PFIITS SDRLAKFLLPVSSSTSCSAGL
5073	35441	A	5114	488	966	ILVGSKGQSVCPGPSSSGTRGSS SPGVA VSNKAAATVGPQ*VTQ QEGGPGSRQRTRAGSPELVPAG PSAVEGEEGSWTPGGPQVPRKR SAAPSRQR*HWLRCTPA*QRRG DWPRAAGRCHAARPPAAGSRA PTKISARPTRISRLGPRAASKAQ RLQRL
5074	35442	A	5115	197	421	KLKATMNSFHKS*SCALVSTRP CSPRGDPRATLTTPALVEPPCG TQDPKMAAEAPQRP GKRLGRN LLTRRRPT
5075	35443	A	5116	3	5649	LLEKLQRRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI QLQTS LHDNRKEVEDLSATLLC KLGPQGSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGGRDS LMSQAPISNQQA E V T P T GRLGK QTDQGS MQIPSRDDST
5076	35444	A	5117	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSSER KPLENER

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5077	35445	A	5118	248	621	TDEPSLLSHTFCPKGALLSACSG ACPLSSGTQAGMPPSTEALQPC RGLTVPHQ/LG*RPQGMWWK ALAADWSVEWQKRRRLGKA LSVTSRTGRLLCR*GSAEAAAS PLAASPRRSSRALGAGIP
5078	35446	A	5119	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER
5079	35447	B	5120	125	994	
5080	35448	A	5121	1	550	RRYRPRRVQDPGGPAEAERGPP RRLNARVHVCRAEASERAPGP CGRVSAHVERARDPRLE*QLED KAAPRQDFTQQLRGPEKQHRM VWQEKEDMHKQLVEASETLKS QAKELKDAHQQKLALQEFLE LNELMAELYSQKQKVWDKEEE MEVAMQKADMMWQEI*RSKK LRKRMLFSQMRWL
5081	35449	A	5122	135	638	GSFPGAPLGQTLVTLGLAWQS SGWILRGWLVPRAKCSPRGQ ALAICLSLRGLGARSTWAETRP QGPRGLASLCPAHMDLSIWKT GDGGPRSAFSKVHQGSLNTFG VDTAARRLSQARTAPSPSVASAP SSAAAPASAGPPPAPGAPPTPA QALRPAPSPRPAER
5082	35450	A	5123	193	610	VGELLPFRFKISLRPFALCLSSL GPCRQPHSGSVPA*NPLLGPRA KSSPHSGCGLAPFAIPELLRRLP LEGAHCPAPEGAASPPTS WDS ADPPCRETSIFAPPRVLTGPGS APQASPSQPLLFLTPRWDRLPES VL
5083	35451	A	5124	2446	2630	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5084	35452	A	5125	3	710	EDGDWDQRRGGEAGDQDQRR GGEDEDQDQRRGGEDGNRDQ KRDGENGDWDWKREDENKDQ DEKREGEDGNQDQRRGGEDGD QDQRRGGEDGNQDQRRGGKD GDQDQGRGGEDGDQDQREG EDGDQEQRRRGEDGE*DQRRG GEDGGQDQKRGGEDGNQDWS REGEDRD*HWRRGGEVGE*DQ RRGGEDGE*QRRGSEDGDWD RSRGGEDGDQDQRSVGHCHS QGPPASGCVS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5085	35453	A	5126	506	882	RCSGQGGFDGNKGTKALPTISA DTTRCWRTLRLVTQMTCRFRRF KAFFIGIMSCGRTGRILFPPCSS MSWIPCRAKNS*GNVISQSPSK NR/WQIMMVIQLLNFYLPGDFV SFRIMLKGNWEVTRTRG
5086	35454	A	5127	107	1327	ERRKRAVGGFDLVLGEQPSDKI FR*VIV*GLALWLPLSKSFVIP AELAINPSAKCKTDMTVMEDA VEVR*VWLQD*GLDSLEVLLDS FGPVRDCSKDNGGCSKNFRCIS DRKLDSTGCVVGLPCKLVVDS SGCYDRHIGVDCSDGFNGGCE QLCLQQMAPFPDDPTLYNILMF CG*VELPARPLDGRSCQLITETC PEGSDCGESRELPNMNQLFGEM FFGYNHNSKEVAAGQVLKGT R*TSYT*N*YQQLPDGLVVATV PLENQCLEEISEPTDPDFLTGE CAFSTLFGYPVLQHWKVR SVM YHIKLNQVAISQGEHCCRLSCD GATSRADFVALLDQFGNHYIQE AIYGFEESCSIWYPNKQVQRRL WLEYEDISKGEWHACWQILSTF PWIVISLHNCLP
5087	35455	A	5128	3	23	FYSAFLVADKVIIVTSKHNNDTQ HIWESDSNEFSVIADPRGNTLG RGTTIT*VSIPPSL

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5088	35456	A	5129	1	2462	MRALWVLGLCCVLLTFGSVRA DDEVVDVGTVEEDLGKSREGS RTDDEVVQREEEAIQLDGLNAS QIRELREKSEKFAFQAEVNR MKLIHSL* [*] NKGIFLERLISNSS C\ALDRLSLISLTDENALSVNE* LTVNIKCDKEKNLLHVQHTGV GMTREELVKNLGTIAQIWDQ ASFLNKMP* [*] SHRKMGPVNLPEL IGPVWVSGFLFPPSLVADKIVT SKHKQPIQHIWGVWTPNGIFL * [*] LLDPRGKHS* [*] DRGNRQFTLCP * [*] KEEASDLPNLDTIKNLRQKN IHSFIKFLIYVWSSKTETV* [*] GA PWGEEEEAAKEEKEESDDEAAV EEEEEEKKPKTKKVEKTVDW ELMNDIKPIWQRPSKEVEEDEY KAFYKSFSKESDDPMAYIHFTA EGEVTFKSILFVPTSAPRGLFDE YGSKKSDYIKLYVRRVFITDDF HDMMPKYLNFVKGVVDSDDL PLNVSRETQQHKLKLVIRKKL VRKTLDMIKKIADDKYNDTFW KEFGTNIKLGVIEDHSNRTRLA KLLRFQSSHPTDITSLDQYVE RMKEKQDKIYFMAGSSRKEAE SSPFVERLLKKGYEVIYLTPEVD EYCIQALPEFDGKRFQNVAKEG VKFDESEKTKESREAVEKEFEP LLNWMKDKALKDKIEKAVVSQ RLTESPCALVASQYGWSGNME RIMKAQAYQTGKDISTNYYAS
5089	35457	A	5130	45	416	RWGLAMFPSLDNKSETLSQKK KKKDLCPHISFEMDLTTADAR WVQDAATRLLATTRCPPNSRG SR**ISWRAGCCPGGWAGPHW GHDGCL* [*] PSCVSSS
5090	35458	A	5131	3	477	GRLPRHRGGEPGAAQAGRQP RGGAAATAAGAPRAGGGAAA GNARRCREAAARDPHHGECSG PEPSQCEGAAHQRAGRAQGD* GGSGATGEGGRRGHDSHNPLG RVRGSTLPPS** [*] N* [*] VGL* [*] VPSWP QCGPAHPPGQHPALQEIHQRLP LESGGHRVV

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5091	35459	A	5132	3	446	RTGSWGWWSASQQRHRKDRGL DSAGSGWVSHILPVPAPPPADA RPSASRWRQGSHPPLPGRTECP SVQPLCLPPPAGHHRNHSIASPS QTPPPSRLPGSQDKSLFLPRDRR TGE GEGHMN*APLSAPGTSCRS GGSTSWLPEILGPTQ
5092	35460	A	5133	352	588	DIFKVGCCFLFKRLRCQQRFFL LIFSSSTQSA*RVSNPGPYH*EIK MAVYYYGELRKNGLIQESCDNIQ PRQGSFNMDSMQ
5093	35461	C	5134	13	144	
5094	35462	A	5135	587	1078	LSQRFPSSRIKLQRLSLQNGIP QIKELDYLFRTNSNQINFNLLSH RVRARPPAPPGRPNPSPGPDPPP EPPARAGSSRRGPGEPRRRQPQ RRFRRRGPDPRGRLSRGL*RRR ARPASPQPROHHSRGPAGRPGV APRRPAGLAAAAERLTARGAA ASPAIPRA
5095	35463	A	5136	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP
5096	35464	A	5137	101	861	LIGYQPKMSRTRRIHSRILPERIK YLGSQIRDVKDLLKENYKPLL NEIKEDTNKWKNIPCSWIGRISI VKMAIL/PQAICGKLKLDPFLTP YTKINSRWIKDLNVGPTTIKTLE ENLGNTIQAIGMGEDFMTKTPK AMATKAKIDKWDLIKLKSFCT AKETTIRVNRPTEWENIFTIYP SDKGLISRIYKELNQIYKKK\TR NPIKK*VRDMNRHFSKEDIYAA HRHMKKCSSLLDIREMQIKTTM RYHLTPI
5097	35465	A	5138	3	314	LKSFCMAKETTIRVNR*PTEWE NIFAIYPSEKGLIYRIYNEATNK DLVRRSGPLKTPKKKSQTLVLN LVTFKRTPALSEEKESAQVLWQ FKKPECVLTSKR VH

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5098	35466	A	5139	1	1278	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPMQGWVNICKSI NIIQHINRTKDKNHMIIISDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIMQEKEIKGIQLGKE EVKLSLFADDMIVYLENPIVSA RNLLKLISNFSKVSGYKINVQK SQTFLHTNNRQRESQIMSELPFT IASKRIKYLEIQLTRDVKDLFKE NYKPLLN
5099	35467	A	5140	1	430	GGVFFLRTPDCCGMLQGAAG STGFYASEARPRGPACSLDRGS SSLLSWGLHQDPLFPAAKQHRR EAGRADQNSPRRLSTG*QTPT L*RRPAAATGRRRAQPPRATSV SAPASPPCPRARPPHHARPPRVL ACQP*ATAPGP
5100	35468	A	5141	1	346	
5101	35469	A	5142	3	1336	
5102	35470	A	5143	5	283	
5103	35471	A	5144	1	1368	
5104	35472	B	5145	1	838	
5105	35473	A	5146	1	962	
5106	35474	A	5147	19	87	
5107	35475	A	5148	41	831	GLQNPKHQSSQLVDLKMKKSL LQCMFQYLIVLQ*YLK*YLGTTQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWIGRNIVKMA ILPKDPTTAQLSPRGSTAQKGH WRPCPLPPRGVPRSPRGPTSH HHDPCPGGAPVRNTGSEWQR KLRSQPKSDWAGRAQAPSLGE GGAKNGKSHPGSHRAFSLPRAP RRLGPGSQPGRFRGFLKQARGR AGEGHSAILLAPESPNAQVSNV TSATYRSNLSGLPRPCSVLLG

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5108	35476	A	5149	1	2233	MKAEIKTFFETNENKDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEKEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAIAKND KGDITTDPTIEIQTIREYYKHLY ANKLENLEEMDKFLDTYTLPRL NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE LRIKYLGIQLTRDVKDLAFKENY KPLLNEIKIEDTNKWKNI PCSW VGRINIVKMAILAQGNL*IKYFN AISIKLPFTFFIGL/EKNLTFKFIW INQKRSRIAKSILSQKNKAGIGI TLPDFQTITYKATVTKTA\WYW YQNRDIDQWNRTEPSEITPHIYT ILINFDKPEKNKHGGKASLFIK WCWENWLA\ICRKLKLDPFLT PYTTINSRWIKDLNLRCQIIKTL EENLDNTIQDTDIGKDFMTKTP KAMATKAKIDKWDLIKLKSFC TAKETTIRVNRQPIEREKIFAITYP SDKGLISKIYKELKQIYKKKNK QPHQKVGEQYEQILLKRRHLCS QQTHESMAHHHWPCREMQINT TMRYHLTPVRMAIIKSGNNRC WRGCGEIGTLLHCWWDCCLV QPLWKS VWRFLRDLELEIPFDP AIPLLGIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYAAIKID
5109	35477	A	5150	1390	3491	DLLTRTACAVPGWGCSSRATC QARGWRLSSPPHPSGVQPLL HLPYPPSPFSLLSNLTPFLRAFPR SLETS*KWART/WPGAVAHAC NPSSLGGRGRWIT*GREFETNL TNMEKPCLY
5110	35478	A	5151	310	445	YLTKIWPGAVAHTCNPSTLGGR GGWIT*GQEFETSLANMVKPHL Y
5111	35479	A	5152	44	1132	PQVIHPPRAPKLLELQEPWRWIH DLNQDTPSALCQH*RTC*HRAE GVSWFKSWIHLGGSCNSSSLGA RGGWIT*GQEFETSLTNMAKPH
5112	35480	C	5153	183	323	
5113	35481	B	5154	504	2474	
5114	35482	C	5155	66	269	
5115	35483	B	5156	2414	3096	

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5116	35484	A	5157	9	239	HHHYCQH HHHHHHHHHHHHHH LPAPCRNL RV*PVCFRYKLWFH YGKQHLLFLDFLLSHSEWCEM VSHCGFDLHFSDD
5117	35485	A	5158	3	387	TDTKPLSCSSCPRGKKPVSHR DQ*RRWGRRCRGEPGTEACWS AGALQF*KPRSRGGRTSKMTSG PSAEKGGG*AGRKPGRRHFGRR VLRHSCVLPVARELWGRHGPC GWRQKNVPWKWSELLPVVAP
5118	35486	A	5159	1	277	MPPPPPPSESPGPGPVGSRLPPG PAVTGNEKELRGNP*VGLAPPR PRFRASRREGVTGKVHRPNRLQ LRAPPKG*SDQRGQNVPPSEAK SLC
5119	35487	A	5160	1	3285	
5120	35488	A	5161	3	194	IPLSLQSKEVGQQLQDDLMKVL NELYSVNQMGLAL*QAEGSSI WQLAAIVHQQN*TPSWGQ
5121	35489	A	5162	520	844	VQAPGKCHAQMPAPAAPVPLG RSRNPGRLASA VPVSSLLRFLPF LQIPPSDILPLSFEAVPSSPAAE SGLHPCTRRRKARPSC*VPGL LLSPQPHPPPHVWRKGIL
5122	35490	A	5163	1	794	FRGFLDRGDCAALPCTYPHSPC SH*GGNCLPSLLTRPCVKA*PQ MSGRKSSMRRWRRQSRLTAGT SS*TPTSSTMC*ALVGSSTWNC MLQAGSTAPGAGTPGSRPTWS SSSTCSWTAPSGRARCACASS SCAMSAARRGWTSPACWRRTS RAWWTSSPACASSATASVAA STASTWPAARTTGGAESSARP ARRASCTGSPARSCWRRRRPPT PSPGRPAPPSRRTRRAQAGTSA LSPGACFGPRSCC*SSTCSSLSV APY
5123	35491	A	5164	3	57	RIGQGVVPHS*VEGGPNVISIV LEYLRDTPPVVVCDGSGRAS DILAFGHKYSEEGG*VKVFLWC THKWKEDPM
5124	35492	A	5165	1	1326	
5125	35493	A	5166	2	337	YSVTMTPGKLRTLCEIDWPALE VGWSSEGLDRSLV*KVLCPEL VPSGGFLVSLTSRMKPQTLTGS VKVLKDGMSGVCSFRCSDVSR VSSFWWVRGLAGWSTTLRLKL
5126	35494	C	5167	339	548	

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5127	35495	A	5168	3	413	SQAFLPAASRRERPPEVDPKA TDPRSGTRRLPPRLPCQWTTPE HSHTSQLNLSRAFPKEPNPAAT Q*NPSGASPRERPHARAQEDRN GEC*EGNGSRPDLEEEASTPRA SPTPSD*PLWLHPPRPLVLETPL LQL
5128	35496	A	5169	3	479	FLHSTHIYWAHSMHELLKTAV VSISGQCTSLNTESGIWGGVPE NAR/CPPAEGTVPASLQPRDPPR LPGSH/ASLPSASPPSRHVTWPP EP/EAAGPKPS*IRCRWPPAGAT TKANPKESGRLVESMLPLPKSR SAPVTFSAFACSGLPERVHEVF RVGKLR
5129	35497	A	5170	81	329	QSVSSPSWFPQFPVQVQKVPCY QVYRGDLVV*KHVAPPPSLPSS FSGHVRHDCFPFAFHDDRKFPE ASPAMLVSSSLGPHYL
5130	35498	A	5171	335	467	MPSTPTARKPESPEALARVESIA CLPSPAPHECSPQASEETG
5131	35499	A	5172	1	2424	
5132	35500	A	5173	2	304	CLTKNTSATREKQVTELHRRSK LQPEPAKTKALQTVIE*KDITLC *VKEHLYIVACWALRLHLVFLP TKAGISPALMKVSYPGKPLTLK QLGRLVILQEQ
5133	35501	A	5174	44	286	GVQNGVEELIVRRMQKSPGP GEMESGSLEKEPLGTQTGPVPS EGTE*TQGPPRTPSLQTQGPQRT PSLQTQGPNTPSL*TQGPLRTL SLQTQGPNTPSLQTQGPRTPS LQTQGPQRTPSLQTQGPNTPS
5134	35502	A	5175	206	384	KRVFAHQADGRARSGFISSAGP GSQAGPGQGTG*QREDVEAAG QPGSTAEGVRT*SDPG
5135	35503	A	5176	270	818	RNERKPSQRTAVGLGAGQLQP GQPGVQSEEPGLEAGCAAGV LPGPAEQDREGIYSK*KRVFAH QADGRARSGFISSAGPGSQAGP GQGTG*QREDVEAAGQPGSTA EGVRT*SDPGSSHPAAAFYEN IQDGEALGRCGAKRTATAAP*Q RG*EGF*AGPTAAEKNEEGPPP VFSLFNSHL
5136	35504	A	5177	122	436	LTSLSAISTKAKVSPLCSARAC SPSPAARAALGSPGFTC*GAGV APTPVPVAAPAPATAPATAVAA AATTTVVSAMFTRRATRAAA ATGAWGFVAGAPWPLQT

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5137	35505	A	5178	20	1341	MRRCVAAPLAHRW*QKLGLPG CTPTVCSFLSPQPPRARSSSAT LSSGAPRAATPQPQTTPSSVQ PCAATPCARGGRPAPAGVTWP TTRPSMA*RTS*ASTTAPRMAP PRSHACARSHRPETARSARTAP RSAITRAFTSTRPPPTTRTVAS SGTHTSGLSPTASRLARCRA PG RSSTIIT*TCRSPTRLCCPAQRPL PPASSPSSSRTSRSVWTRRCTRL RWTSSRPPSWMALRTVGTSTGP TA*RSLRRCQASTWRSRPSTSA PPSWCARWAAT*PLPSACQRK WSMLWRTGTARVSTSACGAAP STSRSTSRPSTPMLRAPVPAGW QPPALHPQPPRPSHTRQPWPSA RRSCRWRTCTTRPASSTSPRA T*TSHWPPTTRWRMSRCSTPTK TNCTCMRGLGTCQAGRLRGCP WPPGPSWAPWSRSWPCSLCSA
5138	35506	A	5179	47	598	ASGPASIVVLRQQFIKFFLDEICS LEERVWCRKLCLLYILWKEPR AVQAKSRCSDIRRELYRPVSLA GLSGDFLRAGRYSAHTVNGAW SAWTSWSQWA**SRGLLLALH NMLKIIIAFCSLQVATRIQSTFIS SWHLSPSLLGSRFSLYMSFGS VLCPLFISHDTSSYSTKSFQSFSC LGVW
5139	35507	A	5180	236	690	LQNWSYLAEQCWNGGFIY LIM LRRFKHKAHSTYNGNSSNSSEP GETPTL*LGDR TAKKGKRTKRF GVISRPPANKAPEESKGSAGCE VSSDPSTELENGPDELGN GHV FQLENGPDSLKEVAGPHERSE VDRGTEHRIPKTDAPLTTSN
5140	35508	A	5181	2	480	WPFWAMVQRPSSAILCGPATLP PNCRGACCARCRATGALSAYP AIHRPATRPPAPPAGPLTSP PPL SVQNSNPDLPSARPSGPAAPR HARHSPSELPALTLSARGSSAL CTKLKVEAAA*SCSASAWNWR LLPRNHVDSRCQPEPDGARARD GRGP
5141	35509	A	5182	3	153	
5142	35510	A	5183	3	239	
5143	35511	A	5184	1	394	
5144	35512	A	5185	1	435	
5145	35513	B	5186	84	2068	

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5146	35514	A	5187	149	832	DAGLSWREATRPGAPLHRPGC QDASTQMTRPGDPGSSALFPLP SP*PEREELPMSSRRSPKPELPG EACSRPPPTRPRPRTATRGPLN GRLPRARLPVSAGAGALGGGR CRRRVAPRRVTPRLATRPSGVA PRGSG*AATTKLSLAFGVTPLA LTPWSRTPFRKREERPPF*YPRP ATPEASPAHVENFRSNQTRYTS AE*SGQQLERPSIAEISAQATVE PRSTI
5147	35515	A	5188	45	312	AEAQGGAEAEHGGGGGGPAPS QGCPARAAGARGWQPAPSPQK P\TPSDTTPPPRTQPPVTQPCHP VTQPPVTQPPVTQPRHPMKIPPP G
5148	35516	A	5189	15	549	PRHKEPESQAPGRRAPQAAAY QQAASPAR*QGGSCSRCPPG*A VEAAPAP*GQALGCVSQGPA*V GPTRSPHPTAGLSRPHGPPSVRS TGWSPSSRPLQAQEAPWPVAPT HIPPLDPGQPHSCGLGAGCQP RAPAARAGHP*EGAGPPPPWP SASAPPCASAPVLWLRFPRET KT
5149	35517	A	5190	1	2445	
5150	35518	A	5191	1	708	FSEGRNRFLNVGPTRFSTSRQTL MWIPDSFFSLLSGRISTLRDET GAIFIDRDPAAFAPILNFLRTKE LDLRGV SINVL RHEAEFYGITPL EKIKMEYCFVCMYS*QVCFE MFLVRRLLLCEELERSSCGSVL FHGYLPPPGIPSRKINNTVRSAD SRNGLNSTEGEARGNGTQPVLS GTGEETVRLANTIDSKYVAND DWLIFYVDEEDLMNAIKDFSS VTKERTTFTDTHL
5151	35519	A	5192	31	330	YGGTATVQRWAESRHVPFPPS QEQNANKICSVCQEEKDSADSY GEIPWWQGPERCWPVRLMLAT LGDYKWVLTGIGTDS*LGFTIPT DHANAFSAKEIPQ

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5152	35520	A	5193	1	734	MISEVIVIQMLFLHAFSKVFSAL IKNNKKPLQDAQIKWKAISGLS GGMRRSECNRRERDQVTRTQCR DISQK\RGPGD*GMATSKNGAM A*QLGPGCQGDASTGNAEFGES AHAWSGGGRVPGVTGPDREEV GRSWQGTSCGGGTSGCGR LQ* DGVASRGRW/DPARPREQRAG VRQLAAPLGGP*SRRPWEPPGG SSCGRYLFAISSWSGVTVAQEG QRKRGS GK*RTERSGPG LGRR L PPLLLTV
5153	35521	A	5194	3	449	EGQRSSSPATALSSSGPPSLKM ATSKNGAMA*QLGPGCQGDAS TGNAEFGESAHAWSGGGRVPG VTGPDREEVGRSWQGTSCGGG TSGCGR LQ*DGVASRGRWDRR DRASSGRESGLHHS GARSLG APGSRPVEAPAAGSEAKTPG
5154	35522	A	5195	606	841	CTVGFALPVFY*GFSH*CSSGIL V*NSRFLLC LQALVSG*CWPH KMS*GGFLLLLTGIVSEGMVP ASLCISGRIQL
5155	35523	A	5196	620	930	IPFISFSC LIALARTSNTMLNRS ERGHPC LVPVFKGNASSFCPFS MILAVGLS*IALIILKYVPSIPNL LRVFSMKGC*ILSKAFSASIEIIM WFLSLALFI
5156	35524	C	5197	1	819	
5157	35525	A	5198	591	815	
5158	35526	A	5199	187	387	FFKTICFMRVRVKRPPNRLCVS NMAVYFTWVQAGLHCESYPEH L*WSCRLPRRLGGVRL*PLEGE
5159	35527	A	5200	1	1197	
5160	35528	A	5201	119	375	ILDISPLSDE*IAKIFSHSVGCLFT LMVVSLAVQKLFS LIISHLSILA FVAIAFGVLDVK/CLVHAYVLN GIA*VFF*GFYGFRSNI
5161	35529	B	5202	1	1053	
5162	35530	A	5203	2	157	
5163	35531	A	5204	12	176	
5164	35532	A	5205	2	223	QTVLED RSPRARWIF*G**GTIC SIPIPSFWWFSSNLSSHVFCRSP SSSPGGLPMCTCVSKFPWAVW PFSRY
5165	35533	A	5206	61	308	

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5166	35534	A	5207	487	898	DFAEVAYQLGISSGVCRTTDFH EPRMLLSDRSSGSFVTIISVFLS FSSLKCL*SPLVHDALHQAFHP GKSRLRFLGSMACCMKFTCP TLSTVPSSTPFSFCSLIKTRSAT LLKLWSISLRFRLHWSWSSAFRV
5167	35535	A	5208	9	191	IPQHIYPPKTKPGRI*ISE*TNNR L*NCGNDQ*LINQKESRTRWIH SRILPKTNREPHE
5168	35536	A	5209	1	1989	
5169	35537	B	5210	1	1488	
5170	35538	A	5211	929	1209	IPFISFSCPIALARTSNTMLNRI CERGHPCLPVVFKNASSFCPFS MILAVGLS*IALIILRYVPSILNL FRVFSMKGC*TLSKAFSVSIEII
5171	35539	A	5212	242	642	FSLKRSFTSLVSWIPRYFILFEAI VNGSSLMIWLSVCLLLMYRNA CDFFPLILYPETLLKLLISSSSLY LW*NSAVNLSGPGFLVGRLLII ASISEPAIGLFRDSPSSWFSLGR VYVSRNLSISSRFSSLFV
5172	35540	A	5213	747	885	
5173	35541	B	5214	115	1267	
5174	35542	A	5215	209	322	
5175	35543	B	5216	1	3321	
5176	35544	A	5217	390	655	CLFPVHYPRLHAMMHQMKNP VLVLGIGGFILGILGVIGGPVSLF KGS*KLLGLIETGKISLDHPVPG GTPTKMALYEHFMNTKEFGIE
5177	35545	A	5218	3	221	
5178	35546	A	5219	798	914	FVFLWDRW*YPLYHFLCLFDS SLFFSLLVLLAVYQFC
5179	35547	A	5220	12	460	YLCMLHEVLVLCFVSPSGHFSF SLN*LF*LAVPVTFYQGLSFLA QA*ASQVDFRQLCWQQEFQAS GS*LAGLHGSGIH*ARPLGSWL QLPFQSEWFCLSGVPGATVVS /CTF**SPF*LV*DGISLWF*FAFL *WPVMMSIFFMCLLAA
5180	35548	A	5221	3	508	AERNGSRQGVGAGAGDHEVLQ LLPDKWKQKILCPVQLLRGAW SNYYSPDANRQP*VQGNALHF AECWPHGEDSQPTVPTSQGRM LAGPARHLPHPHVPSPSGLRG SDSEDTH*GTVAGSGCLHCLAP GHLHPGWPPSRVLPIDRSVHQ GPGRKAPPTPPRVTLFT

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5181	35549	A	5222	584	1052	LRKAAASGSFVFVAPDPNTDTG SSQCESESGSRGCSMGHQ _R SL QH _Y HHHHHHHHHHQH _Y HHHHHHH HLD _T GW _R GE*SRHSAGLCPPSQ RRLHSCQTSPSCPPSGHRCI*LT GIEAA*CHSL*PYQKDACHHFE EHSPPP*RPPHLPRHHLHPQPSS
5182	35550	A	5223	1614	2308	LRKAAASGSFVFVAPDPNTDTG SSQCESESGSRGCSMGHQ _R SL QH _Y HHHHHHHHHHQH _Y HHHHHHH HLD _T GW _R GE*SRHSAGLCPPSQ RRLHSCQTSPSCPPSGHRCI*LT GIEAA*/WS*PLTLKRCVSP _L R RAQSSSVTSSTSAQASSAPPEKK *L*PERPYSSPHASVADLQMC LPLNRITGQTNRPLHRAILLRW MRSCNLLTCTVLSNVSFSELS YSRNTMCRG
5183	35551	A	5224	3	407	SVGLILPSSLQH _Y HHHHHHHHH QH _Y HHHHHHHHLHQ _R KLAPPLC* ADLPTCAPHQGIRPFGGFPQTS GSPGLPVYAEQ _G TERLSLQGT GCGCQAGLLCWGPPVASTSVG FSLESSVSPEQVPLSPGAGTDA
5184	35552	A	5225	1	1287	
5185	35553	A	5226	3	1315	STMALLHSGRVLP _G IAAAFH _P G LAAAASARASSW _Y THVEMGPP DPILGVTEAFK _R DTNSKKMNL _G VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDKEYLP _I GG _L AEFC KASAEALGENSEVLKSGRFVT VQTISGTALRIGASFLQ _R FFKF SRDVFLPKPTWGNHTPIFRDAG MQLQGYRYYPKTCGFDF _T G VEDISKIPEQSVLLHACAHNPT GVDPRPEQWKEIATVVK _R NL FAFFDMA _Y QGFASGDGDKDA WAVRHFIEQGINVCLCQSYAK NMGLYGERVGAFTMVCKDAD EAKRVESQLKILIRPMYSNP _L N GARJAAAILNTPDLRKQWLQEV KGMADRIN _G HAGLQLVSNLQ _G REG _I STH _N WATHSPTKLG _M FC FHRG*KLEQVERLIKEFSI _Y MTK DGRISVAGVTSSNVGYLAHAIH
5186	35554	B	5227	57	386	
5187	35555	A	5228	1485	1883	
5188	35556	B	5229	117	641	
5189	35557	C	5230	1	552	
5190	35558	B	5231	250	378	

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5191	35559	A	5232	3	1117	TPDPGQGCSEGGIVHETRPSPQP LCQGSCAVGCSPLGLLR*RMM ALGKIPPGHRGPAFLPAVESAH VVPGLPGLTRETLPAPLGPHRPP QPPQGPLSTAPPAPLVSPLGPHV PGLPGPPPGCPSPLPLRPCPPPS WLRPHRPVQPWWGT*GSGWRP RCRPGAAGRNPGLPRACCRGL CRGPH*RPGGPRPGHSGPRTSS WGRTMGNRPRPSASAG**PRHR R*TSAERPSPQQSASRTGGRS PLSHPGSWWGVMGPPGLWAG APSMWG*GPGSRVAGGSGRRP TSPRPPHYPPHPPGTWPSGAQS GRR*QAQTPGAATEG*GGWGL PPKPWCPQDQFLGVQDWVLPP NGARVGGTWAWKRESVLVPG
5192	35560	C	5233	229	522	
5193	35561	A	5234	1	972	MTAEYYKLKQVVTPIAAAVPD VVSLLQINISLCTWYAVIDL NACFYIPVHKAHQKQFAISRHG QQYTFTVLLQ/RRDLDFSLPQ DITLVHYVDGIMLIGSSEQEVA STLDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKVKDCLLHLAPTTKKEAQH LAASFEWGPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVS ADRDVWSLWQAPIGESQWRP LGFQNKALPSADNYSPPERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQQHGLP LNKADLAVATAKCPISQQQRPI
5194	35562	A	5235	3	246	
5195	35563	A	5236	3	841	
5196	35564	A	5237	1	746	RDLDFSLPQDITLVHYVDGIM LIGSSEQEVA STLDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKVKDCLLHLAPTTKKEAQH LAASFEWGPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVS ADRDVWSLWQAPIGESQWRP LGFQNKALPSADNYSPPERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQQHGLP LNKADLAVATAKCPISQQQRPI
5197	35565	A	5238	1	483	
5198	35566	A	5239	1	1908	
5199	35567	B	5240	1	2718	

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5200	35568	A	5241	522	693	LDFFLVFLQQFLPRPSSSEI*MLP GFPAAYGPVAAA VAAARGSGR K VYGTGDSQA
5201	35569	A	5242	1	225	MGRNQSRKAENSKHESTYSPP KDHSSSQAMEQSWTENGFEKL GFRKEALYYLDLTASCQSQEL FQKWVSLCCPD*S*TYSPPKDH SSSQAMEQSWTENGFEKLGFR RKEALYYLDLTASCQSQELFQK WVSLCCPD
5202	35570	A	5243	1	1129	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITDPYAMRLYKSL CQYRAFVNGGGEKARGKPIL CRYGVGM

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5203	35571	A	5244	1	1753	MVDSLIRVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELHDEQMAALYRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISHLHIHAEDTFLPFY LGKKDDVTYAIKPTCWPGLDII PSCLALHGIEIELMGKFDEGKLP TDPHMLGLAIETVAHDYDVIV IDSAPNLGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDIKGFEPDVRILLTKYSNS NGSQSPWMEEQIRDAWGSMVL KNVVRETDEVGKAVINHKKGK NSPRMVQSNDLTKAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSLAGKEVVFYRPE EDAGDEKGYESFPWFQSEE/P QSGNFYTDTLGMAEFRGGLR ATAGPRLSRTRDCQGTEKVHG KTVFDKTVP/WVPKRLKSPSCK NRWP*KMQKLSVCTASSPGQQ LSTVRVTQREICFPVVRREVLLL IGTLTQTRKGQISVRA
5204	35572	A	5245	337	1977	

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5205	35573	A	5246	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAA YLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPPDFRRRFLQGFCFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDY TSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
5206	35574	A	5247	1	1383	
5207	35575	A	5248	1	1731	
5208	35576	B	5249	1	1290	
5209	35577	B	5250	1	3345	
5210	35578	A	5251	1	1959	
5211	35579	A	5252	3	2356	
5212	35580	B	5253	334	1710	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5213	35581	A	5254	1	1302	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPV NVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEGNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQSAKK RDAELANGALGIIELNNDYTLK KVMKPLITSNTCDNLKTCHTSH GSVMAETAVINHKKRKNSPRIV QSNDLTEAAYSLSRDQKRM LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPE/EDAGDE KGYESFPWFIKRAHSPSRRLYS VHINPYLIPLLYRVPNRVTQFRL SETK/EITHPYAMPLYESLCQYS
5214	35582	B	5255	1	1452	
5215	35583	A	5256	1	1323	
5216	35584	A	5257	1	1557	
5217	35585	A	5258	1	2259	
5218	35586	A	5259	1	2418	
5219	35587	A	5260	1	1218	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAHKERNQNISRYISNRLAR RECHDSPEEGTGNTSKERLQG RLPSRGLTESQEHLLDTRKQFW FEDFKDGLGPILKCDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLSAS NYQRMPDFRRRFLQV\CVMEIN KQTSMLSYI
5220	35588	A	5261	1	2028	
5221	35589	B	5262	1	1653	
5222	35590	A	5263	1	1446	
5223	35591	A	5264	1	1788	
5224	35592	A	5265	22	1893	

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5225	35593	A	5266	1	2144	MEKKITGYTTVDISQWHRKEHF EAFQSV AQCTYNQTVQLDITAF LKT V K K N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G F I E N M F F V S A N P W S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K D T G V R S K I S G V I K M P M G V A V V N C C T Y G S D Y R V W L A S W M M S Q W L H Y P E W Y R K E N K H K F Y P A F I H I L A R L M N A H P E F R M A M K D G E L V I W D S V H P C Y T V F H E Q T E T F S S L W S E Y H D D F R Q F L H I Y S Q D V A C Y G E N L A Y F P K G F I E N M F F V S A N P W S F T S F D L N V A N M D N F F A P V F T M G K Y Y T Q G D K V L M P L A I Q F F D M L R D L L K N V D L K G F E P D V R I L L T K Y S N S N G S Q S P W M E E Q I R D A W G S M V L K N V V R E T D E V G K G Q I R M G T E L F F R L S E T K E I T N P Y A M R L Y E S L C Q Y R K P D G S G I V S L K I D W I E R Y Q L P Q S Y Q R M P D F R R R F L Q C D N L K T C H T S H G S V M A E T A V I N H M K R K N S P R I V Q S N D L T E A A Y S L S R D Q K R M L Y L F V D Q I R K S D G T L Q E H D G I C E I H V A K Y A E I F G L T S A E A S M D I Q H A L K S F S G K E V V F Y R P E E D A G D E K / G Y E S F P W F I K R A H S P S R G L Y S V H I N P Y L I P F F I G L Q N R F T Q F L L S E
5226	35594	A	5267	1	1167	M N M N I K K I V K Q A T V L T F T T A L L A G G A T Q A F A K E N N Q K A Y K E T Y G V S H I T R H D M L Q I P K Q Q Q N E K Y Q V P Q F D Q S T I K N I E S A K G L D V W D S W P L Q N A D G T V A E Y N G Y N V V F A L A G S P E D A D D T S I Y M F Y Q K C D N L K T C H T S H G S V M A E T A V I N H K K R K N S P R I V Q S N D L T E A A Y S L S R D Q K R M L Y L F V D Q I R K S D G T L Q E H D G I C E I H V A K Y A E I F G L T S A E A S K D I R Q A L K S F A G K E V V F Y R P E E D A G D E K G Y E S F P W F I K R A H S P S R G F Y S V H I N P Y L I P F F I G L Q N R F T Q F R L S E T K E I T N P Y A M R L Y E S L C Q Y R K I P D G S G I V S L K / I D W I I K R S Q L P Q S A F Y Q P F M G L R R E S F Y F R W E R R T L G P L K S F S V K R G T E A G K F R L A A L L V R L
5227	35595	A	5268	1	1395	

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5228	35596	A	5269	1	1375	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKETY GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KIRRKNGPVSATFTSDGKIRLFY TDYSGKHYGKQSLTTAQCDNL KTCHTSHGSVMAETA VINHKK RKNSPRIVQSNDLTEAAYSLSR DQKRMLYLFVDQIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSL/KIDW/II/ RYQLPKVPSPEARKITRRWRIIV KQRI*LGFLRLSEMPRKQGDY RTRIWKFEGLSNVLVIQLNKLI ICVMCLVRDCDVLKTYFHR
5229	35597	B	5270	1	1668	
5230	35598	A	5271	1458	2675	CDNLKTCHTSHGSVMAETA VI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIKR AHSPSRGLYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAM/R IPLH*LFR*TLRQTKPDNSAGKC VKI**HTQNQRSGRSQND*RR GI
5231	35599	B	5272	1	1317	
5232	35600	A	5273	1	987	
5233	35601	A	5274	1	571	
5234	35602	A	5275	1	4161	
5235	35603	A	5276	1	1228	
5236	35604	A	5277	387	3466	
5237	35605	A	5278	1	6721	
5238	35606	A	5279	1	1651	
5239	35607	A	5280	5082	5879	
5240	35608	A	5281	1	231	NHLAVRRRLTELSGGQRQRAFL AMVLAQNTPVVLLDEPTTYLDI NHQVDLMRLMGELRTQGKTV VD*VRDLNQVSRYC
5241	35609	A	5282	1	303	CLRILCPYPYIPLTEKTLA*PAL YTLELTADMAETCKQFLPEFSL TFSFQRGWKEKETEYAEVLERNF ERDRQLTYTAHGPHKADLRIQE SGVPYNEILVTL

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5242	35610	A	5283	1	273	TNSSVGPGRLL*QTAAPHRGK LKVFFGACAGVGKTWAMLAE AQLRAQGLDIVVGVVETHGR KDTAAMLEGLAVLPLKRQAYR GRHISEF
5243	35611	A	5284	66	1200	HILPAGHPTLRHSLFPHQQGRSS VQSALGAASGNGLKLVGRFEW GPSRRARSGYPDATGYDQPKPI SAAVKEFFGSSQLSQFMDQNNP LSEITHKRRISALGPGGLTRERA GFEVRDVHPHYGRVCPINETPE GPNIGLINSLSVYAQTNEYGFLE TPYRKVTDGVTDEIHYLSAIE EGNYVIAQANSNLDEEGHFVE DLVTCRSKGESSLFSRDQVDY MDVSTQQVVSVGASLIPFLEHD DANRALMGANMQRQAVPTLR ADKPLVGTGMERAVAVDSGVS GGVVQYVDASRIGIKVTKTRCI RVKQVSTSTTLPLFLMESNPLF WMAVLVSAGILGQWPIGRAD KFGRLVLRVQVFVILGSIAM
5244	35612	B	5285	1	862	
5245	35613	A	5286	1	579	DPRD*RLKVAK*MVTLFGPQFV RELQQRGFDIFDLKFHDIPNTA AHAVAAAADLGVWMVNVHAS GGARMMTAAREALVPFRPDAP LLIAVPV*RSIKASDLVDLGMTL SPADYAERLAALTQKCGLDGV VCSAQEA VRFKQVFGQEFKLV TPGIRPQGSEAGDQRRIMTPEQ ALSAGVEYMENGRPGTQSVK
5246	35614	A	5287	484	978	GIVRIPHRLADIKCWRAVLVNY THYSYQANLCCANLE*ADLSGS VLDCANLQGVKMLCSNAEGAS LKL CNFEDPSGLKANLEGANLK GVDMEGSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKGAIF EEMLTPLHMSQSVR
5247	35615	A	5288	3	504	YRLSQSSSKSLVSRSWLNMRFIS SVMFMEPTSSSENFTSPSCSE MSSSEATLRSFFLGTTSPCRSM VGLQLVKSSQSSSVSSFSHVRL SQSSSKSKVSRLAGT*EGSEKRS FREEKVPCLRLGLPESTLYAHC SV*SRTHVFSGTSHHSSK VAVG MSIVQMRKL

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5248	35616	A	5289	2	442	HVIWHMPRKTSKCRQLLCGA SRNADTAARQSTCSSHRPPGKIP SLGPRRVPGCCSVPSRGEQSTG SPAAPRCGDVTHTEASQEEQP* LRGTHGPASTPEQGTAKAKVR DRRAVVHPGKTGIPSAAG*KGR GRPGEPPGAAVQVE
5249	35617	A	5290	151	1185	YVDQVTHITESPLPSVSYSFAFG SLISAVDPVATIAIFNALHVEED TEKGHVRLTPASPSTFFFFFSTE EKYAPGSCCRKAAVL*LLHISH QLSLDSPSLTVVIYVLKHIDLRK TPSCRHCEI*VGDHTAVLSVLFS PSLGIMAILFSGIVMSHYTPREA SP*SCCLFTVSSHTVCCHPGLRG AIPYALSLHLDLEPMEKRQLIGT TTIVIVLFTILLGGSTMPLIRLM GLPGGAPRWQLVAVGPPFLP AQGNTVESEHLSLSEETEEYEAH YIRRQDQLSLFN*N*SCLWPSPC LPPPP*TPHTKHPVASPPFHGPA PDALTAWLCLSTQDLHHGRIQ MKTLT
5250	35618	A	5291	5	198	VCGRQQSLEAGL*GAATPFAVF PRPWSAVRVKEYGYTRLHLIN GTHIHQQVSDDAQAFQCHPP
5251	35619	A	5292	137	308	HLERTGPNLPPGARLATRPTR LPAASPRGRDTPLPIISFYSETE AKGEAPYIEPE
5252	35620	A	5293	612	1078	RPPEKKERGRVRGRRGGGGK RRRRKRKKRKGSKGREDAAAA AAAAQSPRTRAPAPD*ERRPQP APSARAPPRPLLAPRRSRPAQV PPDSASPWAAAAGLALPPPQCP GGGARPLRLLPQPPAPGGTAR WEPRRPRPAAAPGLLQSPGPLP RQS
5253	35621	A	5294	515	817	LALPHLPSNLLLKGWLKKA*S RPSRTPSFG*LSQWKHALKRLK PVITCLLQHGLKPINSPYNSLIL PVLKPKDPYKLVQDLRLINQIV LPIHPMVSQA
5254	35622	A	5295	1	951	
5255	35623	A	5296	1	1077	
5256	35624	B	5297	87	1423	
5257	35625	A	5298	29	234	
5258	35626	B	5299	77	327	
5259	35627	B	5300	1	235	
5260	35628	A	5301	2	2144	
5261	35629	A	5302	1	855	
5262	35630	A	5303	845	1057	

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5263	35631	A	5304	1	933	
5264	35632	A	5305	1	954	
5265	35633	A	5306	1	1603	MEAEKFHQMPVSRRTKASG VIQSKSENLRTRGANSALKRL KPVITRLLQHGLLKPINSPYNSPI LPVLKPKDPYKRFLAFYGWSPR SLIVDSCSKLEQHSTLSRVILVIY KGFCRFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVACL TGEKKNHPGAQYANRLSPRVG RFINAAGTTGFPTGKRAVSATQ LMDFADFGTTITQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQSSQLS SLRLTLPDRLRSPLDHHGRRAS GNSHSGSPKPPSCLPLISPHLNP QVWDISTPSLATDHMPITIPKLS NTLTPLNLKCQYPIQHALKRL KPVITRVLQHGVLPKPTNSPYNS PILPVLPKDPYKLVQDLRLINH IVLLPIHPMVNPYTLSSIPPSTI HYSVLDLKHAFPTIPFHPSSQPL LAFTWTDPDHQAQQITWAVL PQRFPRTGPHYFNQAQISSSV TYLGIIKITYVLSLPIVSD
5266	35634	B	5307	1	874	
5267	35635	A	5308	144	539	
5268	35636	A	5309	1165	1639	PHPAVASRRGRAGPGGLSAPER TPSSELSPLSKGDLRKTHRTFSP Q*GDLRKTHRTFSTR*GDLRKT HRTFCTR*GDLRKTHRTFSTR* GDLRKTHRTFSTR*GDLRKTHR TFSTR*GDLRKTHRTFSTR*GDL RKTHRTFCTR*GDLQKTHRTFS TR*GDLRKTHRTFSTR*GDLRK THRTFSTR*GDLRKTHRTFCTR* GDLRKTHRTFSTR*GDLRKTHR TFCTR*GDLRKTHRNFSSTR*GD LRKTHRTFSTR*GDLRKTHRTF CTR*GDLQKTHRTFSTR
5269	35637	A	5310	235	453	SHWPWLCSSSTSCSSQRSIVSSG MARGPFLRKRDLLFPPPPPGSH GLELLEIIFHQGISQVHLLHLQ VWL*NLNVPDSSLPAENEATGP GFVPPPLAPVRGPLFPVADIARGP FLRKRDLLFPPPPPGIAMVFGASR DYFPPGDFGPPPPAPFASMAFL N

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5270	35638	A	5311	2	2333	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESLKD SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTTFQIFQMNEERL KIAJKDALNENSQLOESQKQLL QEAÉVWKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPPWDQDRRMMFPPPG QSYPPSALPPQRQDRFCNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPVAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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5271	35639	A	5312	141	2788	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSLGIEEKSLLLE KFSLVQKEYEGYEVESSLKDAS FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSKHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQLESQKQLLQ EAEVWKEQVSELNKQKVTED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFELLEKDPYALDV PNTAFGREHSPYGPSPLGWPSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRMMFPPPGQSYDPS ALPPQRQDRFCSNSGRLSGPAE
5272	35640	A	5313	217	447	FQRMSGL*GYSPPLGGQPAL*E CQGAADSAGG\RGLDSESLGR \PAASGPNTALGWQAQPWS*Q AGPELPRAEFLQA
5273	35641	A	5314	3	287	TLRNRHRELRTCLSGPGLGLPT QVSVVAGGCCVCPSSSQSPVPR PPALSAAPWHSRAGCPPSGGL *PQRPLILWNQPLSNTLLEKELA PPPAH
5274	35642	A	5315	3	468	ALARSPAG*PQSPDGDLCFRHR KGERRPAAPAGQCPAGRQRHV PAAGRDGKPGRAPGADR*AGPI LHLYHLPAPCGGGTPGDSNPRR APAQRSE*CTPPPPQ*RNNRKPS TRAGLLLPS*HVQLSGGLTLCF GDRVS*WPQGVLAAPGPGPCT HL
5275	35643	B	5316	64	288	

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5276	35644	A	5317	73	265	NGRTSRCFSPGKH*EYCSGTFH PLQVVGKIYSNLDKIL*ASRAR WGLCSRKPGYWSCTQPPTSS
5277	35645	A	5318	125	461	
5278	35646	A	5319	298	593	LGVEVEPVTGGDAVIGASHDAF LQVNIESIVPEHSTRCKLLGKFI RIWIKYFRHLVHGGGSAPVSLV TGPVHGDSLLGPVAPPEPRVVE PARQVRAHAVVVAGPLRRGRG LGRHRLRARSG*GMPQSVRGA CGA\QGHGPAGEDQRL\PRERG PAGQVQQPGVVPGLQDPEGCL RVQDQ*PGLREQSPHRARDA*S ILSKFE*IFPTTCSGWNVPEQYS QCLPGEKHRDWPR*LHHLL*PA QLPPPVTTSTGHPSAIEGLETPL RSPLTPGPPGKSIIPHHQPSPDCD GTDCAAFPENIIRLSRKICKRG
5279	35647	A	5320	1124	1835	HSLHFPKFPSFLTLTLGLLM AVPPGLITTHQQRQAML*YKPL ARLLEPLISFPSWKSILKEITSQC SICYSTTPQRLFRPPFPPTHQTR GFAPPR/HWQIDITHMPQVRKL KYLVLVDTGSKKATVVISSLL SDIIPRFGLPSTIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWITLLPLSLLRIQ ACPRNATGLHSDG/VGPKLLPG SPFQLHHTWDSP
5280	35648	A	5321	1	1758	
5281	35649	A	5322	1	1967	
5282	35650	A	5323	76	1908	

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5283	35651	A	5324	524	2144	QSDLSASQHGFLFPLATEVVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC LRAAAAAALIVLEALKITNYAQ LTLYSSHNFQNLFSSSHLTHILF CSPGFSCTHSLSLPQLPIVPGP DFSPASHIILDTPDPHDCISLIH LTFTPFPHISFFPAPHPDHA*FIN GSSTRPNRHTPAKAGYAIVQVT SPPLKTSHFLSIVEIYPQGNFNS VFHLLFYYSSGIIQAPLLSLHIKL RDLPPPRTGKSALLNMPVRKLL KYLLVLVDTGSKKATVVISLL SDIIPRFGLPSTIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDGEARSSFQAH HFNFITHGTVPDVFVPILQLLNE DFEDPCLGYLPSPEISICLEPTSW SKDRSCSSGEEGSAGQTVTGDL HKAQTPELDQPASLNCPL
5284	35652	A	5325	1	420	RTRGGEKE*EEKQRSRR*RIK*E EEEK*RRSRGAGDKG*NERRRR NRGEPVEKEEDRRRKRQWRR GEEEKRRRGRNCGGGGEEKE DGRRRRLPCFLLPSLLVSLW LVSFLPCVFGFGAPAVVFARF RGLRAFCRF
5285	35653	A	5326	2	467	
5286	35654	A	5327	269	777	
5287	35655	A	5328	2443	2627	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPSPFKGFS CLSLPGSWYYRHGPPRLG
5288	35656	A	5329	57	394	
5289	35657	A	5330	33	311	HNTLPKTKPWFQEPGDEEPQQE EPPTESRDPAPRLPRSP*SADPP WRSQRPQGLTRPPPEPLRPHGS PPAHLSLFCQRSCPGPQERPHPS TM
5290	35658	A	5331	226	406	
5291	35659	B	5332	51	90	
5292	35660	A	5333	1	348	PPSQRV*GWHMRQGGRRQHAQ PVLSQQGLTAGHCHHQHCRRP LACDVRPVVYEKVS RDHGLVS GQHN/PAPESQGGSTSPPRHTGR KQARAGGEKKVTS DPANTAQH NPNTGSRGRP
5293	35661	A	5334	109	380	

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5294	35662	A	5335	448	724	WPSRSALAAGGRTAPTTPRSRAG PPAR*RAGRESARGTS*GIRPRS QPARRPCPPAPVGRGLPPGPAR PPPRAAPREPPRCRAAAHTSRP AGS
5295	35663	B	5336	1	1554	
5296	35664	B	5337	99	366	
5297	35665	A	5338	1	714	
5298	35666	C	5339	391	689	
5299	35667	A	5340	2	614	
5300	35668	A	5341	2	461	
5301	35669	B	5342	45	1148	
5302	35670	A	5343	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLTSQILE EAEWFTVLDLKDFAFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5303	35671	A	5344	1	1035	MGQVWALVRSTLELFTDDEE EGEYDEVTEEVTEQVYLPKA KVAQEEVHPYPSAPPHYFEE KEWPDPPDLSFLEDTGRKVVP VTEQHLELLSVLFRQEFSLRD ERDDAVEQLRGVCIRAWEKITS GGEQYPSFSAVKQGPKEYADF IAWNLLRQESLKKVISDSAAQD IVLQLLAFGNVNLDCAALRPI RGKAHLVDYIKACDGIGAKQD SERFAFTIPVVNNLQPAKHFIY FTDGSSNGKASYSKSGKQNNQ PIWILSRHLKPYHEPDAKEEIPG G/CPRTPLWLQPCRD*C*GGP*/P VTSNTR*TQPPTWGQIKKLSQM VEENLRKAGQLVTMTVYWN
5304	35672	A	5345	1566	1767	KGGWSQRHSQGACYTCRKSGH WAKECPQPGIPKPRPICVGP KSDCSTHLAANPRAPGTLAQGS L
5305	35673	B	5346	1	3429	
5306	35674	A	5347	1	1776	
5307	35675	A	5348	1	933	

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5308	35676	A	5349	1	1743	MGKVWAVVRSTLELFHTDDEE EGEYNEVTEEITEQVYLPAAKAK AVKEREQRGNITATFEPFPFKLL KEFKQAINQYGPESHFVMGLL KNVAVSSQMIPTDWDALTDQAC LTPAQFLQFKTWWAHEASIQ ACNAQAQPQINITTGQLLGVG WAGLDAQVVMQDDAIEQLRG VCIRAWEKIPLCGEQYASFS AIIKQGPKEPYVDFIAWLQESLKKVI ADSAAQDIVLQLSAFDNANPDC QAAL*PIRGNAHLVDYIKACDG IRGNMHKATLLVQAMAGLRVD KGNPLLPACFCNGCKHGHTKQ ERRKKSVSQAARWGKRKTADP EICPKCKGKYWANQCHSKFD KDGTLISGNAMRAEQDCEWFT FTIPAVNNLQPAKHFRFTDVS SNGKASYSKGGQARVQLFE NASVRATNSDLPQSSLWCRRKT SVSVAVLVSATIPISRVQGPSQV LGQGEKQTNQNVVNPYTL LSQIPEEAKWFTALDLKDAFFC IPLHSDSQFLFAFEDLTDHTS QLTW TILPQGFRDSPHLFGQ ALAQDL GHFSSPGTLVLQYV DDLLLATS SEASCQATLDFL SFLAN
5309	35677	A	5350	1	1085	
5310	35678	A	5351	1	3105	
5311	35679	A	5352	1	5172	
5312	35680	A	5353	41	324	
5313	35681	A	5354	18	270	KLSQVCIDLL*IREGERDMYPG WAKFPSPYSLKGT*PIAQGV LW SFGDFFYC/IPSTLPTPK SWRLFE SPFPESLTPVSLV WWPC
5314	35682	A	5355	80	384	SNNRTEGAWGKCQLMSS/PLTE PQVTLTIDSQEIDFLDGTGA AFS VLISCPEQLSSRSVTI* GILGQPV TRYFSHLLSCN WETLLFSHAFL VMPESPT PLLGR
5315	35683	C	5356	99	317	
5316	35684	A	5357	388	476	KVCPRPCRTSM/LPIRII* KLPQV CLDLL*IIEGEGDM YPG*AKFPS PYCLKGT* PGTIAGSWARGVSA AASPSY SSPSY

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5317	35685	A	5358	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVSNP YTLLSQILEEAFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
5318	35686	A	5359	1	909	
5319	35687	A	5360	153	436	CFCCVEGNKPRNLQRTTKTPR LSVMSPPSSCRGRGIWPNPGTC/R PSPSLI*SRSRQTWRITTPCQQG NKTGQRMNLN*QEQASEGG* *QTPLS
5320	35688	A	5361	1	1632	
5321	35689	C	5362	1	675	
5322	35690	A	5363	604	1047	SNNRTDNPTSVAYLSKETDVV AKGWPHCLWVVAVAILVLEA IKIIQKDKFTVWTS HDVNGILG AKGNSWLSDKRLRLRYQALLLE GPVLQIHTCVALNPAIFLPEDGE PIKHDYQQIVAQTYVT*EDLLE VPLANPDLNLYTNGSSFV
5323	35691	A	5364	749	1002	QLKKGTNSLLVSKPSPVWIPTG TLTQIMGTGVANIC*PVF*KD*G ELGKMNYAMMSTITQGKEENP AFLKWLWEALRKYTPLSP
5324	35692	B	5365	114	2309	
5325	35693	A	5366	413	1157	
5326	35694	A	5367	105	478	YGHCCYDHRICCFPPATEQKVC PCAAQG*PL*LRGDDPEMSVYI *QLPLYSSDLLSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDKQFLHSS FDFCFGRVFSNFE
5327	35695	A	5368	531	1087	RLQPPGAPVEDITRPVSAKPRD ADRNSTGCYLV*LQHQRQTES GRQLSGL*GPGCNGVH/ASLYR TSAMFAERFGSYSRRSTTAGIPS LLRLKSTIRSDRSRRKAQRKR CGQVMPQHRRSIRPLLQIPITPSL NRNLHRSPHRSRNRWSRLNRR LKHHLRRSQNRSRWSKKKLHR RVKPMCLCNWVR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5328	35696	A	5369	544	1381	VNPALQVLVVAITPPPSLPSPSCI RVLTRVSNAIAAKPLCLAVCAV VEGGRIRALVAVAAWGAGVTG GPAGLIACGPVSPSVIRGQFRHA GISFFLYAIGGEMVPAVRRQNH TPA*HKRFAKAFQLAHPNAV AEHFAGGDRHLFSLNQGCVV KHHVRRDITFIGYRFTQFA
5329	35697	A	5370	81	863	AYGNPVEIAGGARQAGVNF VFRPRFSRRWRRISGETCKLWW RRWRSASINQTFASWSTLIF RAISNPIIRKPDAPGVMACPRKR CCFTIRLIWRGCAVWVKRSR/E GQLQDIERHKLNAMGAFAEAQ TCRRLVLLNYF/GRRASGAVRE LRYLPRSAETVRRFNRCSDCPF HHWSCESAVWDGLCGGSDSCC GVSRARLFASPVNLPITGEIPER GFHPFCGRRTENGKNHPRNLF WRSNCSVLPVKVMSLCSSTPCP
5330	35698	B	5371	12	273	
5331	35699	A	5373	145	336	SEEEEEEEEEEEEEEEEEEEEE E*EEGESAIICAKVCISVFPRRK NELNMAITPNTIPKLNHW
5332	35700	A	5374	294	657	VAPGDRHAFHGGGSGLSPELTL PQTQCCAQATVQGLEGTRWS QSGTSSLSPWSHTSLACPQKEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEAKTQ*KSG QKI*TDSPQKK
5333	35701	A	5375	2	588	SRPGITGSTISYGDPGHGAGPPG ADLGPASLKPORAAGAQLAA GEARQSGDPGLPGGPGHSLGTA PC*VDKGWGHVPSTVHHQRQP QPGGLRAPGTALLAGTQPSHPA AGPWEPQPQRGVRVLGGRRDS *VGGG*QHNKALWGPR*PHT EQKPDRKLSRIPLRAAGGEKRG CGCDRAGCLVLGPPQLPAQGL
5334	35702	A	5376	1	445	SLSHRAGGGGGVGGGAVCLFS PPRTKRESAPESPSRVLGHSPVP S*GAPSTRGSVSRIITSGGTH SNGLTCHRNQAGTGPSALRSGR P*CLSRANPPGSKRSAGPVHEE RT*PCRLSGSAGITQ*DGN*KAG PRVPEAPERGCATC

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5335	35703	A	5377	3	313	QNDEVAFRKLKLIIEDVQGKSY LTNFHGMNLTNDKMCMSVKK WQTVIEAHVDVKTTNGYLLCL FCVGFTKKCNNQIWKTSLF*QQ SNMEDFFVLTTGIISHLHEPFLV VTDYDQ
5336	35704	A	5378	45	764	TSFLTGGGKKS\KKKVVDPPS KKD/WL*YVKHRAMFNIRNIGK DVGSPRTQGTKIAS\DKLKG\RV FEVSLADLQNDVAFRKFKLIT EDVQGK\NCALTNFHGM DLTP* QKCCSMVKKM/WQTM*SSPL MVKT\TDGLLASVCSCVGFTKK RNNQIRKTSYAQQVQRQIRK KMMEIMTREVQTNDLKEVVNK LIPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGS
5337	35705	A	5379	3	501	SSARFVSSSSGGYGGGYGGVL TASDGLLAGNEKLTMQNLNDR LASYLKVRALAAKILSDMRS QYEVMAEQNRKDAAEWFTSRT EELNREVAGHTEQLQMSRSEV TDLRRTLQGLEIELQSLSMKA ALEDTLAET/EGDV RADSERQN QEYQRLMDIKSRLEQE
5338	35706	A	5380	1	716	AQLKVFWYWPEAGAGGLRR FKHY\YTPFKDCRDKILGATIKN SRIVLQIDNAGLAADDFRTKFE TEQALRMSV*ADITGLRRVLDE LTLARTDLEMQIEGLKEELAYL KKNHEEEISTLRGQVGGQVSVE VDSAPGTDLAKILSDMRSQYEV MAEQNRKDAAEWFTSRTELT REVAGHTEQLQMSRSEVTDLR RTLQGLEIELQSLSRLWGFCF PLEGVFWVEGWEGRDPYPRLF
5339	35707	A	5381	3	832	
5340	35708	B	5382	141	1067	

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5341	35709	A	5383	3	1316	GVAPSVLRLAMTSYSYRQSSAT SSFGGLGGGSVRFGPGVAFRAP SIHGGSGGRGVSVSSARFVSSSS SGAYGGGYGGVLTASDGLLAG NEKLTMQNLNDRLASYLDKVR ALEAANGELEVKIRDWYQKQG PGPSRDYSHYYTTIQIELDKIL GATIENSRIVLQIDNARLAADDF RTKFETEALRMSVEADINGFR RVLE*S*TLAQEPNLEDARIEG LKEEVLAYLKKNHEEEISTLKGP KCEAQV\SVEVD\SA\PGTRSSPK ILSDMRS\QYEVMAEQNRKDA EA\WFTSR\TERIETREVAWPHR SSFQMSQAPRLDLAAATPQGS *DLSCQSQLEPLKAALGKTPLA ENRKA\RFGNPQLAPYPQALDS AVI*KPQLG/DIVAKLDSSTGRI QEYQRLMDIKFARLEQEIAHP NRSLA/LEGQEDHYNNLFAK
5342	35710	A	5384	23	279	GCLRGSLERCGTLCK\SLHEISG PESRVQ\QPLSSREEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEERKK ECSKAQCKHFPLSEVL
5343	35711	A	5385	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKKKKK KKKKKKKKKKKKKKKKKKKK RKKKKKEEEEKVVEEDEFIWF LGNSLYFPSFSHFAWSQIPSRED EGERRLRVNSMIMDFTSNTNH
5344	35712	A	5386	3	259	
5345	35713	A	5387	53	387	LEEEKEEEKEEEKEEEKEEEEEE KE/DEEGEEGEGGEGEGEGEGE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEMIVLKIIVAKQLF
5346	35714	B	5388	1	1446	
5347	35715	A	5389	3	122	
5348	35716	A	5390	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
5349	35717	B	5391	1	1269	
5350	35718	B	5392	44	244	

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5351	35719	A	5393	1	626	EEGEVEEEGEEEEEEEEEGEGEE EEEEEGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEQEEEEEEEEEEEE EE\EEAAAAAASRDSHTSLEL TYWPPCPALRDTLVSNCSLSSL CTSGDSFHW*ETTIPAMSSCSH QHSLHQLGIIPRQILMRMASLM RRIC\EDHPATAEQ**HV*GPPD
5352	35720	A	5394	2	506	
5353	35721	A	5395	1	480	
5354	35722	A	5396	1	492	
5355	35723	A	5397	1	870	
5356	35724	A	5398	111	407	
5357	35725	A	5399	1	651	
5358	35726	B	5400	1	2427	
5359	35727	A	5401	571	966	SPFTNSRLTIFISFSECGQIAEYI LSQPFMVRIMATEPPIINLQPGN FTLDIVSRDHTTAL*PGRQEONS VSKKKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEKKKK
5360	35728	A	5402	1	1674	
5361	35729	A	5403	1	306	
5362	35730	A	5404	2	431	
5363	35731	A	5405	1	585	
5364	35732	A	5406	1	708	
5365	35733	A	5407	3	595	
5366	35734	A	5408	287	659	
5367	35735	A	5409	1	633	
5368	35736	A	5411	3	634	
5369	35737	A	5412	344	481	
5370	35738	A	5413	1	525	
5371	35739	A	5414	1	501	
5372	35740	A	5415	1	461	
5373	35741	A	5416	302	567	MLCCLEISSTRYPKSSLSKSFH KSLGQQQNAASLFAKT*RESPL LQFPASSSSPSETTSAWTLFISL SAFLTAKFNKSLGGSKLSH
5374	35742	A	5417	251	844	NLGRGSQTSILDFCAPAGLIPCG SCQGLGLPHSEATARAVYWPL SAMAGVAGTQGTSLDSSLFA KT*QESPLLRFTSSSSPSETTSA FILLFISLSEFLSKPFNKSLGGSK LSHIFVSSSEPSKLSQPLHMQ ARISFTSGHTDDSTVLFVLLK LPLPVPSQAFSLKPGSIVMLSS WSDNFNIPSISDSDA
5375	35743	A	5418	1	1113	
5376	35744	A	5421	1	337	

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5377	35745	A	5422	2	680	
5378	35746	A	5423	144	373	
5379	35747	A	5424	1	597	
5380	35748	A	5425	3	3319	
5381	35749	A	5426	1	612	
5382	35750	C	5427	46	168	
5383	35751	A	5428	1	663	
5384	35752	A	5429	10	417	IAIMNDTVAIRTRKFMTNRLLE RKQMVIDVLHPGKATVPKTEIL EKLAQMYKTTDPVIFVFGFRTH CGGGKTTGFGMIYDSL DYA EK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
5385	35753	A	5430	67	263	GKTTG\FGMIY\DCLDYAKKNE PKHRRARHGLYEKKKTSRKQR KERKNRMKKVRGTAKANVGA GKK
5386	35754	A	5431	2	537	TPGSTTTTKFPTASTSEDRSPIM ND\TVTIPH*EKFMTQPTYFRGN QMVI\NDVLSPPGKGDQCPKHK FGKKLAQNVPRPTD\VIFVFWI QNFIFGGGKTTGFGMIYGFPGI YAKEKMNPDHRLCKDMGLVL RKEKGPSRKANGKGTARNRIG RKVPGGTGKGPNVGCWAKRR NEVSSS

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5387	35755	A	5432	1	2195	ARGLSMGH*FP/PHFQCALA*M PAPGRGPPPLPP/CPDAPPACA ATMERPEAGLRVAPRSPVQPGC TSVLPVAKRFNARILWLKRPQR QLWSLWRAQATVSLGGFHVM LSLQVHRINARVKEAWQLPPRF QMMYQKAWVLRQKPAAAVEP SQRNSPRAMLGGNVGLEPPPRV STRALPSGAVGRGLPPSRPKND TATGSLHPELGKAADIQFHPVR AATGASPCKSIGTELPAKALGAH VLLQCALDVGHGVEGELWSFK TRQPSDFSIFSPFPFPYSTKPPLS SWPIPIPLGTTPRRGRGGAEG LLTSQCSHILNGLCFTGGINSNE CENVSRKKKMSEEFANTMDS LVDMPFATVDIQDDCGIFFDVW KLRVNCQEILANRHPGRAMRK VVLTKTSWEGESLAVGKLPLK RLVSLDCQLRCLQCECGILIRQ HVWVWLERTTGHWHPRSSQSCR LNTTSTALEHCNAFIYNTVCSH KLKDHSHDNGKSSGFLNPVAA PHSCIVMGHLTLITTSSYYTPLT KPDTPDLTKKEGLISQDSSSLEV LLHTDPLGKRGTDPDPRVDDDSL GKFPVTNSQARKRILEPDDFLD DLDDCYCEDAPKHRGKGCOSA HKELDASNLEDQDKPYACDIC GKRYKNRPGLSYHYAHSHLAE EGEDKEDSQPPTPVSQRSEEQK SKKGPDPGFALPNNYCNFCLGNS
5388	35756	A	5433	1	580	FSPLIHLILSGHSTCFREHRVGG KVTDDQDPKAEFFLVQNKMK SLPCLLLSTQTRQPSDFSIFSPF PPFYSTKPPLSSWPVLNELLGTP PRRGGGRAEG/PPHFPVGVGPR GAPSPRRGGWPGGGLTPQPPS RTGRLAGRGADPPTSLPDGAA GRAGG*PHHLPGRGGWPGRG APHFPVGVAGQRRFLIC
5389	35757	A	5434	405	685	KVSHVYFYPHRPRNHPISQFFPH PSRLSIPQNRHCHHGPS/RNEPL GTPPR/PGSWPGRGAPHFPETFN HGRRWKGSRHVFTWPEQERE WGSATHF
5390	35758	A	5435	1	654	
5391	35759	A	5436	1	426	
5392	35760	A	5437	1	548	
5393	35761	A	5438	1	459	
5394	35762	A	5439	1	346	

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5395	35763	A	5440	1	1248	
5396	35764	A	5441	1	1257	
5397	35765	A	5442	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGGI TTDPTEIQTIREYYKHLYANK LENLEEMDKFLDTYTLPRNLQE EVESLNRPIGAEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLGDGTIFYKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPSPLLFNIVLEVLRAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKIRARI AKAILSQKNEAGGITLP
5398	35766	A	5443	1007	1719	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLRARIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLG QLTRDVKHLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAVPIKLPMFTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLP
5399	35767	B	5444	1	1020	

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5400	35768	A	5445	1	1576	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNLYIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLWSP AS*DPLA*NSCCQHSLCKSTWD AQACARKLRTLKGYRNCQLE
5401	35769	A	5446	1	984	
5402	35770	A	5447	1	1563	
5403	35771	A	5448	1	1449	
5404	35772	B	5449	1	1605	
5405	35773	B	5450	1	1569	
5406	35774	A	5451	1	690	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYNPLLNEIKEDTNE WKNIPCSWVGRINIVKMAILPK ATVTKIAWYWYQNRDIDQWN RTERSEIMPHIYNLYIFKKPEKN KQWGKDSLFDKWCSENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIGI GKDFMSKTPKAMATKAKIDK WDLIKL\FCTAKETTIRVNRQS TKWEIISLD
5407	35775	A	5452	1	1919	

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5408	35776	A	5453	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQWNRTEPSEIMPHTYNYLI FØKPEKNKQWGKDSLPHKWC WENWLAVCRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTL
5409	35777	B	5454	1	810	
5410	35778	B	5455	1	1277	
5411	35779	B	5456	130	1701	
5412	35780	A	5457	1	1395	
5413	35781	A	5458	3	1646	
5414	35782	A	5459	1	759	
5415	35783	A	5460	2821	5781	
5416	35784	B	5461	1	2025	
5417	35785	A	5462	1	3663	
5418	35786	B	5463	1	2265	
5419	35787	A	5464	1	2241	
5420	35788	A	5465	1	2478	
5421	35789	A	5466	1	2067	
5422	35790	A	5467	1	2988	
5423	35791	B	5468	1	2061	
5424	35792	A	5469	1	2141	
5425	35793	A	5470	1	400	
5426	35794	A	5471	2	2507	
5427	35795	A	5472	1	768	
5428	35796	A	5473	1	1527	
5429	35797	A	5474	1	1293	
5430	35798	A	5475	1	1038	
5431	35799	A	5476	1	1572	
5432	35800	A	5477	1	1290	

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5433	35801	A	5478	1	524	MSELPFRIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNISCSWVGRINIVKMAILPK/ VKHR/FSACLQSLGRSGTTGLE ALAM*PIWPQVEVE*VKFPALPS GASSTKGGCVP*QIQVEERLLS WKL*QA*TSWYQRRSDSSL RERK*PKSIQRNVRLSYYP
5434	35802	A	5479	2	1547	
5435	35803	A	5480	1	2376	
5436	35804	A	5481	1	1824	
5437	35805	A	5482	1	1071	
5438	35806	B	5483	1	1839	
5439	35807	B	5484	1	1368	
5440	35808	A	5485	1	1884	
5441	35809	A	5486	1	1053	
5442	35810	B	5487	1	2532	
5443	35811	A	5488	1	2373	
5444	35812	A	5489	1	2361	
5445	35813	A	5490	1	2274	
5446	35814	A	5491	1	1686	MASPGPAPTASPKIHSELLTATR EAQRHHPVPRGQDLVTSEFSL SFCFSAAIFIFELLGSNSEGVTDL RLWLCQPAPRCGEWTYNPLEQ CCDDGVILDNLNQTRLCGSSCTF WPCFQHCCLESLGSQNQTVVRF KVPGMKPDCKSSPITRICAQAG VQISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASQ RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA LIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEITPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LAICRKLKLDPFLTPYTKINSRW IKDLNVRPKTIKTLEENLGITIQ DIGMSKDFMSKTPKAMATKDK IDKWDLIKLSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCSLSLAIREMQIKTTNQNHM RYHLTPGHG
5447	35815	A	5492	1	1872	

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5448	35816	A	5493	195	1494	PPGQHLQRRCLLRVSGFSENAK KGMLEVLARAINRQEKKIKGIQS GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKALGYKISV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRJNIVKMAILPKVIYGF NAIPIKLPMTFFTELEKTTLKFI WNQKRARIAKSILSQDKAGGI TLPDFKLYYKATVTKTACNSN GSQSPWMEEQIRDAWGSMLVK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTDTSLSIPAAPMVD SLIARVGVMARGNAITLPVCGR DVKFTLEVLRGDSVEKTSRVW SGNERDQELLTEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLGCEL DDEQMAALSRLGNDY
5449	35817	A	5494	1	1845	
5450	35818	A	5495	1	2109	

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5451	35819	A	5496	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAYLGV LSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARS LVGNTIMTSQVPVNETIIVLPSNVIN FSQAEKPEPTNQGQDSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIVVLGLDICRPFVSRVSEE GRMGQRGEEDANSDFPPASLL CLICQEQGVNGESCSVPGMYH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDA EKAFDKIQQHF MLKTL SKLGIDGTYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTA WYWHQNRHIDQWNRT KPSEITLHIYNLYFFDNPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETTIRVNRQPT
5452	35820	A	5497	3	2284	
5453	35821	A	5498	1	1245	
5454	35822	A	5499	1	1140	
5455	35823	A	5500	383	1185	
5456	35824	A	5501	1	3159	MLEVLAWAVRQEKEIKGIQLG KEEVKLSLFADNMTVYLENPIV SAQNLLKLISNFSKVSGYKVSG QKSQALLYTNNRQTESQIMSEL PFTIASKRIKYLGIHLTRDVKDL FKENYKPLLKEIKKDTNKWKNI PCSWVGRINIVKMAILPKDIIQE NFPNLARQANIQIQEIRKTPQRY SSRRATPRHIVRFTKVEMKEK MLRAAREKASHHTYSKIDPILG SKPLLSKCKRTEITNYLSHSAI KLEFRIKNL

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5457	35825	A	5502	583	2515	MQKKPLTKFNNPSC*KLSIN*LI SNFSEVSGYKISVQKSQAFLYT NNR/QESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNK WKNIPCSWVGRINI VKMAILPKAIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLD PFLTPTYTKINSRWIK DLNVGPNTIKTLEENLGITIQDI GTGKDFMSKTPKAMATKAKID KRDLIKLSFCTAKETTIRVNR QPTKWEKIFTTYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEHIYAAKHKMKCS PSLAIREMQIKTTMRYHLTPVR MAIIKKSENNSLLAAGGGNRRT ANVVAHG FANLLTLDKKT LQEI LVHYPD SERILMKKARVLLKQ KAKTAEATPPRKDLALLFPPKE ETPKLFKTLLGGTGKASLARLL KLKREQAAQKKENSEGEEEG KENEDKQKENEDKQKENEDKG KENEDKDKGREPEEKPLDRPEC TASPIAVEEEPHSVRRTVLPRGT SRQSLIISMAPSAEGGEEVLTIE
5458	35826	A	5503	1	2463	
5459	35827	B	5504	1	1221	
5460	35828	A	5505	1	4494	
5461	35829	A	5506	1	2825	MARTSYGQHFFPTLISMNIDSG RQNNGIPKLSTSYSLKPMNTLC YLVKRDLEGV LKLRILT WESSL DYPGGPSVITKVLIRQKEGQSQ RTRYDNGSRGWSDAIAVKRPQ AKECGWPLEAGKGKEWILRKE CIPANTLMLAQCPPTLRVGGSV CSA WRMIQNSDGERRKRNR IQL QAVRLSKVIHDTFRNFPRFVHS RELSKGA EKSSSLKKGLEQVII WTKCRQCGESRCTKKVEERKV LHNTFISTSTTITTLG

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5462	35830	A	5508	1184	4791	TSMQKSSIKYWQTESSSTSKSLSTMIKWASSLGCKAGSVYANQ*M*SSI*TEPKTKTI*LSQ*MQKKPL/YKIQQPFMLKTLNKL AQNLKLLISNFSK VSGYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPQVIYRFNAIPIKLPMFTFFTELEKTTFKFIWNQKRIAKSILSQKNKAGGITLPDFKLYYKATVT
5463	35831	A	5509	516	2233	
5464	35832	B	5510	286	4131	
5465	35833	B	5511	1	4911	
5466	35834	A	5512	1080	3119	SSGLHPWDARLVQYTQINKCNPAYKQSQRQKPHDYLNRCRKKAFDKIQQPFMLQTLNKL GIDGTYFKIIRAIYDKPTANIILNGQKLEAFPLKTGTRQGCPLSLLLFNIVLEVLAIRAEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLKLLISNFSK VSGYKINVQKSQTFLYNNNRQTESQIMSELPFTIALKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVGRIKIVKMAILPKVIYRFNAIPIKLPMFTFFTELEKTTLKFIWNQKRAKRAKSILSQKNKAGGITLPDFKLYYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPFLTRYTKINSRWIKDLNVRPKTIKLEENLGITIQDIGVGKDFMSKTPKAMAAKAKIDKWDLIKLSFCTAKETTIRVNRQPTTWEKIFATYSSDKGLISRIYNELQQIYKKKTNNPIKKWAKDMNRHFSKEDIYAAKKHMKK\CSSSLAIR\EMQIKTTMRYHLTPVRMAIIKSGNNRIRRHFFQPRSAMFFCCCPGGEGSGLQWELLAAAWTVLPYPCPAATVGRFLKQAQTADHSFLGHVWRVPSSRSWTDKEILSLVVNRQNQE VVQLIGGLCGTHTISPTQHPATG

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5467	35835	A	5513	2494	4549	LQTLQGYSNSKQHGTTGKTAWY WYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPDKNKKWKGDS LFNKWCWENWLVICIKLKLDP FLTPYTKINSRWIKDLNVRPKTI KTIEENLGNTIQDIGMGKDFMS ETLKARATKAKIDKWDLIKLS FCTAKETTIRVNRQPTKWEKIF AIYSSDKGLIPRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEDI YAAKKHMKKCSSSLAIREMQI KTAMRYHLTPVRMAI
5468	35836	A	5514	1	5582	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLDIYQTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRTQIITNYLSDHS AIKLELRINKLTQNHSTTWKLN NLLLNDYWVYNEMKAEIKMFF ETNENEDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
5469	35837	A	5515	3371	5375	TDSQKKTTFMQPKKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIKKSGNNRSWYFEKINKIDRL LARLIKKKREKNQIDAIKNDKG DITDPTEIQTTRREYYKHLA NKLENLEEMDKFLDTYNLPRL KQEEVESLNRPIRGSEIVAINSL PTKKSPGPDGFTAIFYHRYKEE LVPLLLKLFQSIEKEVILPNSFYE ASIIIPKPDRDTAKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVG

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5470	35838	A	5516	314	2695	GSACRDPDPDPLRLVGGGAAA PPCSSVSPSAWRQSRPREYYEG GRGLHAPDRETALGLGIATSER MLGICRGRRKFLAASLSLLCIPA ITWIYLFSGSFEDGKPVSLSPLE SQAHSPTYTASSQRERESLEVR MREVEEENRALRRQLSLAQGR APSHRRGNHSKTYSMEEGTGD SENLRAGIVAGNSSECGQPVV EKCRRNPLHFHLIADSIAEQILA TLFQTWMPAVRVDFYNADDEL KSEVSWIPNKHYSYGLMKLV LTKTLPANLERVIVLDTDITFAT DIAELWAVFHKFKGQQVLGLV ENQSDWYLGNLWKNHRPWP LGRGYNTGVILLLLDKLRKMK WEQMWRLTAERELMGM LSTS LADQDIFNAVIKQNPFLVYQLP CFWNVQLSDHTRSEQCYRDVS DLKVIHWNSPKLRVKNKHVE FFRNLYLTFLEYDGNLLRRELF GCPSEADVNSENLQKQSELDE DDLCEFRFRERFTVHRTHLYFL HYEYEPAADSTDVTLVAQLSM DRLQMLEAICKHWEGPISLALY LSDAEAQQFLRYAQGSEVLMS RHNVG YHIVYKEGQFY PVNLL RNVAMKHISTPYMFLSDIDFLP MYGLYEYLRKSVIQLDLANTK KAMIVPAFETLRYRLSFPKSKA ELLSMLDMGTLTFTFRYHVWTK GHAPTNFAKWRTATTPYRVEW

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5471	35839	A	5517	3	2079	GKPVSLSPLESQAHSPTYTASS QRERESLEVSRMREVEEENRALR RQLSLAQGRAPSHRRGNHST YSMEEGTGDSENLRAGIVAGNS SECGQQPVVEKARRNPLHFHLI ADSIAEQILATLFQTMVPAVR VDFYNADCLKSEVSWIPNKHYS GIYGLMKLVLTKTLPANLervi VLDTDTFATDIAELWAVFHKF KGQQVLGLVENQSDWYLGNL WKNHRPWPALGRGYNTGVILL LLDKLRKMKWEQMWRLTAER ELMGMSTSLADQDIFNAVIKQ NPFLVYQLPCFWNVQLSDHTRS EQCYRDVSDLKVIHWNSPKKL RVKNKHVEFFRNLYLTFLEYD GNLLRRELFGCPSEADVNSNL QKQSELDEDDLCYEFRRERFT VHRTHLYFLHYEYEPAASTD VTLVAQLSMDRLQMLEAICKH WEGPISLALYLSDAEAQQFLRY AQGSEVLMSRHNVGYHIVYKE GQFYPVNLLRNAMKHISTPY MFLSDIDFLPMYGLYEYLRKSV IQDLANTKKAMIVPAFETLRY RLSFPSKAELLSMLDMGTLFT FRYHVWTKGHAPTNFAKWRT ATTPYRVEWEADFEPYVVVRR DCPEYDRRFVGFVGNKVAHIM ELDVQEYEFIVLPNAYMIHMPH APSFDTKFRSNKQYRICLTKL EEFQQDMSRRYGFAALKYLA
5472	35840	A	5518	403	2757	
5473	35841	B	5519	128	353	
5474	35842	A	5520	2	333	
5475	35843	B	5521	25	1359	
5476	35844	B	5522	1	1113	
5477	35845	A	5523	1	2526	
5478	35846	A	5524	3	555	

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5479	35847	A	5525	1	1710	MSQGTTPWGPPTAGTTPSEVH RPFPPVPVPVPETSERSFVVRG VCGQAQSLRRGAARLAPAAAY LFTRQQTRELIHSACVSISVNTM HGLSVAINSRRCTYYRK YVIDF SKSEIIGIPISKNI DLTVGTTVTQ LQNLNTVGIIGSRGGRGQVAAL NCDRQGHLLWFTRVTVHWRM GNDRTFWGLLDTVSELMFIPGN PKHHCGPPVKVGAYGVTF LGV HWCGACQDTPCKMKDKLLHL APP'TTKKKAQYVVGLLGFWRP YRV TQKAASF EWGPEQDKALP QVQAAVQPALLFGPYDSADPM VLEASVADRDAVWSLWQAP/IS HKMGHAQQHSIIK WK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRA WFTDGSARYAG TTQKWTA AALQPLSRTSLKGS GEGKSSQWAE LQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISA EEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5480	35848	A	5526	1	438	
5481	35849	A	5527	1	612	
5482	35850	A	5528	2	736	EKCAMTALSSKLISQKFAFFAK MVVDVMMMLD DLLQLKMIGI KKVQGGAE DSQLVAGVAFKK TFSYAGFEMQPKKYHNP KIAL NVELELKA EKDNAEIRVHTVED YQAI VDAEWNILYD\KLEKIH SGAKVVLSKLP IGDVATQYFA DRDMFCAGRVPEEDLKRTMM ACGGSIQTSVNALSADVLGR CQ VFEETQIGGERYNFFTGC PKAK TCTFILRGGA EQFMEETERSLH DAIMIVRRA
5483	35851	A	5529	3	474	
5484	35852	A	5530	374	968	
5485	35853	A	5531	1	568	
5486	35854	A	5532	1	2136	
5487	35855	A	5533	1	240	
5488	35856	A	5534	248	1034	
5489	35857	A	5535	1	1602	
5490	35858	A	5536	120	340	

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5491	35859	A	5537	2	408	DEDDDDDDDEEDDDDEDDDDDF DDEEAEEKAPVKKSIRDTPAK NAQKSNQNGRDSKPSSTPRSK GQESFKKQEKTPKTPKGPSSVE DIKAKMQASIEKGGSLPKVEAK FINYVKDCFRMTDQEA\QDLW QWRKSL
5492	35860	A	5538	194	1027	WSFISIHLLSYLSACHHLMEDS/ MDMGMRLRPQNYLFSCELKA NKDYHFKVDNNEHQLPLTTI NLGAGAMDELDIVEAEAMNYE GSPKIVILATLKMSVQPTVSLG GFEITPPVVLRLKCGSGPVHIS GQHLVAVEEDAEESEDEEEDV KLLSISGKRSAPGGGSKVPQKK VKLAADDDDDDEEDDDDED DDDDDFDDEEAEEKAPVKKSIR DTPAKNAQKSNQNGKDSKPSS TPRSKGQESFKKQKTPKTPKG PSSVEDIKAKMQASIEKAH
5493	35861	C	5539	212	367	
5494	35862	A	5540	14	1515	
5495	35863	A	5541	1	540	
5496	35864	A	5542	1	1881	MDAALDDLIDTLGGPEETEEEN TTYTGPEVSDPMSSTYIEELGK REVTIPPKYRELLAKPIGPDDAI DALSSDFTCGSP*LYPSQVFHLL DLLPFSPGYQPRLLQHHLA/AVP FKVAGSGGADCILHMEVRDTA SDTGAGAAALDSSVFSVGLDGF SLHSDRSKSSSESSMSDSLRLGL GFSSGSGNSGFPSLSVAGFNLYS DGI VSSSSPHFSSFSSLAFASTTS LIERRSSSGSACRVPSEADRASS
5497	35865	A	5543	1	930	
5498	35866	A	5544	1	183	
5499	35867	A	5545	1	555	
5500	35868	A	5546	162	499	FPGSGNMAKDAGLIEANGELK VFIDQNLSPGKGVVSLVAVHPS TVNPLGKQLLPKTFGQSNVNIA QQVVIGTPQRPAASNTL/VWVG SPHTPSTHFASQINQPSDSSPWS AGKR
5501	35869	A	5547	2	451	LVAEFSAADNHILPNESAYDQK NIRRRVYDALNVLMAMNIISKE KKEIKWIGLPTNSAQECQNLEV ERQRRLERIKQKQSQLQELILQ QIAFKNLVQRNRHAEQQASRP PPNSVIHLPFIIIVNTSKKTVIDC SISNDKFEYLFNFNT
5502	35870	A	5548	37	162	

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5503	35871	A	5549	205	616	RKLHGSQSSITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADAQVRRAVNNYDIIVMSNSF NGQSEHQVWIGGQFTFIKFPIN SVSIRCRARQEGIMSSPGQQVG
5504	35872	B	5550	1	1407	
5505	35873	A	5551	3	416	MLPARMCCGIVSG*QFHTGNSY DHDYEFELGTRS*A*LKLLFS*T LPD*QLPAGSGEGPYHLEGQLS YCHRGGEKALAALLSSPTSKTR SPSEPDPEDQEQKLRFCRRLHY GQQPRSPVEIRLQHVAIAYQTH HAYD
5506	35874	A	5552	1988	2137	LVITTLPLACGTAK*E*VNVTS FGSRPICSTSPVLFSGL*GPVKEF DT
5507	35875	B	5553	1	561	
5508	35876	A	5554	1	492	
5509	35877	A	5555	3	1055	
5510	35878	A	5556	1	634	
5511	35879	A	5557	1	723	
5512	35880	A	5558	1	384	
5513	35881	A	5559	1	792	
5514	35882	A	5560	3	1607	HCTRMSVKWTSVILLIQLSFCFS SGNCGKVLVWAAEYSHWMNI KTILDELIQRGHEVTVLASSASI LFDPNSSALKIEIYPTSLTKTEL ENFIMQQIKRWSDLPKDTFWLY FSQVQEIMSIFGDITRKFCCKDVV SNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYSLSFSPG YTFEKHSGGFIFPPSYVPVVMSE LTDQMTFMERVKNMIYVLYFD FWFEIFDMKKWDQFYSEVLGR PTTLSETMGKADVWLIRNSWN QFPHPLLPNVDFVGGLHCKPA KPLPKEMEDFVQSSGENGVVV FSLGSMVSNMTEERANVIASAL AQIPQKVLWRFDGD\KPDTLGL NTRLYKWIPQN\DLLGHPKTRA FITHGGANGIYEAIYHGIPMVGI PLFADQPDNIAHMKARGAAVR VDFNTMSSTDLLNALKRVINDP SYKENVMKLSRIQHDQPVKPL DRAVFWIEFVMRHKGAKHLRV AAHDLTWFYHSLDVIGFLLV CVATVIFIVTKCLFCFWKFAR KAKKGKND
5515	35883	A	5561	2	1600	

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5516	35884	A	5562	2	1624	AATGKQALHCIRMSMKWTSAL LLIQLSCYFSSGSCGKVLVWPT EFSHWMNIKTILDELVQRGHEV TVLASSASISFDPNSPSTLKFEV YPVSLTKTEFEDIKQLVKRWA ELPKDTFWSYFSQVQEIMWTFN DILRKFCCKDIVSNKKLMKKLQE SRFDVVLADAVFPFGELLAELL KIPFVYRPRFSPGYAIEKHSGGL LFPPSYVPVVMSELSQMTFIE RVKNMIYVLYFEFWFQIFDMK KWDQFYSEVLGRPTTLSETMA KADIWLIRNYWDFQFPHLLPN VEFVGGHLCKPAKPLPKEME\E FVQSSGENGVVVFSLGSMVSNT SEERANVIASALAKIPQKVLWR FDGNKPDTLGLNTRLKWIPO NDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNI AHMKAKGAASLDFHTMSSTD LLNALKTVINDPLYKENAMKLS RIHHDQPVKPLDRAVFWIEFVM RHKGAKHLRVAADLTWFQY HSLDVTGFLACVATVIFIITKC LFCVWKFVRTGKKGKRD
5517	35885	A	5563	1	225	
5518	35886	A	5564	1	3210	
5519	35887	A	5565	1	835	
5520	35888	A	5566	222	477	HPRCLSPKGILKYLTKKYLKKN NLRDWLRVVANSKESYELRYF QINQDEEEEEDED*ISFIWKILYE FLNKTWDPKKKKTKKKKK
5521	35889	A	5567	1	778	MAAAAAAAGDSDSWDADAFS VEDPVRKVGGGGTAGGDRWG GEDEDEDVKDNWDDDDDEKK EEAEVKPEVKISEKKKIAEKIKE KERQQKKRQEEIKRLEEPEEP KVLTPEEQLADKLRLKKLQES DLELAKETFGVNAVYVIGIDAM NPSSRDDTFEGKLLKDITQYE ESLYYARFLEVLVRDVCISLEID DLKKITNSLTVLCSEKQKQEKQ SKAKKKKKGVVPGGGLKATM KDDLADYGGYDGGYVQDYED
5522	35890	A	5568	1	897	
5523	35891	A	5569	1	2658	
5524	35892	A	5570	1	441	
5525	35893	A	5571	3	427	

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5526	35894	A	5572	1	952	PRLVLLKMAPLDLDKYVEIARL CKYLPENDLKRLCDYVCDLLL EESNVQPVSTPVTVCGDHQQF YDLCFLFRTGGQVPDNTYIFMG DFVDRGYYSLETFTYLLALKAK WPDRTLLRGNHESRQITQVYG FYDDCLTKYGNANAWRYCTK VFDMLTVAALIDEQILCVHGG SPDIKTL\DIQIRTIERNQEIPHK GAFCDLVWSIDPEDVDTWAIIS PRGAGWLFGAK\VTNEFGS*ST NEKLCIRAHQLVHEGYKFMFD EKLVTVWSAPNYCYRCGNIASI MVFKDVNTREPCLFRAVPDSE RVIPRRTTTPYFL
5527	35895	A	5573	54	588	
5528	35896	A	5574	1	4287	
5529	35897	A	5575	1	507	
5530	35898	A	5576	1	1416	
5531	35899	A	5577	1	841	ILLWDVDGGLTQIDKYLSSD YIKSGALLACGIVNSGVRNECD PALALLSDYVLHNSNTMRLGSI FGLGLAYAGSNREDVLTLLPV MGDSKSSMEVAGVTALACGMI AVGSCNGDVTSTILQTIMEKSE TELKDTYARWLPLGLGLNHLG KGEAIEAILAALEVSEPFSA NTLVDCAYAGSGNVLKVQQL LHICSEHFD\SKEKEEDKDKKEK KDKDKKEAPADMGAHQGVAV LGIALIAMGEEIGAEMALRTFG HLLRYGEPTLRRVPLALAL
5532	35900	A	5578	2	391	AFGVTEPGCYGVIDVDTGKSTL FVPRLPASHATWMGKL/HSVLT SQKPSVLLTLRGVNTDSGSVCR EASFDGISKFEVNTILHPEIVE CRVFKTDMELEVLRYTNKISSE AHREVMKAVKVGMKEYELER

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5533	35901	A	5579	18	1541	RRCRANMAAATGPSFWLGNET LKVPLALFALNRQRLCERLRKN PAVQAGSIVVLQGGREETQRYCT DTGVLFRRQESFFHWAFGVTEPG CYGVIDVDTGKSTLFVPRLPAS HATWMGKIHSKEHFKEKYAVD DVQYVDEIASVLTSSQKPSVLLT LRGVNTDSGSVCREASFDGISK FEVNNTILHPEIVECRVFKTDM ELAEVLRVTNKISS\EAHREV\MK AVKSGEWKEYGVGKASFEHY CYSRG\GMRHTSYTCILRAVG *GTSVLTFTGH\AGAPNDRTIQ NGDMCLFDMGGEYYSVASDIT CSFPRNGKFTADQ\KAVYEAVL LSSRAVMGAMKPGDWWPDM\ HRLAYRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHF LGIDVHDVGGYPEGVERIDEPG LRSLRTARHLQPGMVLTVEPGI YFIDHLLDEALADPARASFLNR EVLQRFRGFGGVRIEEDVVVID SGIELLTCVPRTVEEIEACMAGC DKAFTPFSGPK
5534	35902	A	5580	1	98	
5535	35903	A	5581	1	810	

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5536	35904	A	5582	1	861	MLKEIIDDTNKWKHIPCSWMG RISIVKMTILPKAIYKFNAVLIKI PPSFFTELEKTILKFLCNEKRAS RAKARLNKKNKSGGITLLDFKR YYSAIVTKTVWYWKNRHHQ RNRIENPEINPNTYSQLIFNKAN KNIKWGNDTLFSKWCWDNWL ATCRRMKLDPHLSPHTKINSRW IKDLILRPETTKILEDNIGKTLLD VGLGKDFMTKNPKANARKAKI NIWDLIKLKSEFTAKGTVSRVN RQPTWEKIFIHTSDEGLLISRI YNELKQISKKK\TNNPIKKWAK DMNRQFSKEDVQMANKYMKK CSTSLIANLICREMQIKTTMQY HLTPARMAIHKSKISRCWHGC GDQGTLLHCWWECKLVQPLW KTVWRFLKELKVELPFDPAIPL LGTHPEEKKSLCKKDTCTCMLL AAQFTIAKSWNQPKCPSVNEWI KKLCPRWLLSKWASA*NKWK HIPCSWMGRISIVKMTILPKAIY KFNAVLIKIPPSFFTELEKTILKF LCNEKRASRAKARLNKKNKSG GITLLDFKRYSAIVTKTVWY WYKNRHHQRNRIENPEINPNT YSQLIFNKANKNIKWGNDTLFS KWCWDNWLATCRRMKLDPHL SPHTKINSRWIKDLILRPETTKIL EDNIGKTLLDVGLGKDFMTKN PKANARKAKINIWDLIKLKSF TAKGTVSRVNRQPTWEKIFIH
5537	35905	B	5583	473	1694	
5538	35906	A	5584	1	429	
5539	35907	A	5585	572	1149	PPVSHSMTLGNSYLFAPNWTIT PAW/CNTLDPSEGFGWQASLSL PSHQQEHTCPEWLPTYSWPCK VGPDYLSEICQPECKQHFQESL TESSKQNIYETCAIYVSSPGERIL NQRFGPHGAFILVREYDDIRFS HSGPPSTCPNFPGPSYYTARESA YALKLRALEIIQISQSTKMQRNL GNPILPAIHQQPPQ
5540	35908	A	5586	1	804	
5541	35909	B	5587	1	1995	

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5542	35910	A	5588	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRN *NRVKAIM/VGKA EWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQINTSPG T/WNRKRFCNRSRLLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFWSPEQEKALQQVQAVV QAALPLGPYDPADPVLLEMSV ADRDVWILWQAPISESQWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDLSSPKMCHPQQ
5543	35911	A	5589	1	1337	MIISIDAEKAFDKIQPFMLKTL SKLEETASPPVVATYTPQPMML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIRLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTSPFKSSIWPLQ KTDGSRMTVNYHKLNQVET PIAAAVPDVVSLLAQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQQQYTFITLPQGYIN SPDITLVHYIDDIMLIGSSEQEV ANTLDLLPARVASWGVYPDQL T/GGRED*GLLHRWSCRICRHH
5544	35912	A	5590	2	693	KIVN/QKQYHIRGGIAEISATIKD SKDTGVVIPTTSPFNSPIWPVW KTDGSWTITVDYHKLDQVVTPI AAAVPDVVSLLAQINTSPGTWY AAINLENAFFSIPVHKANQ/KQF AFSWQQQYTI AVL PQ/VKFLG IHWFVACQDIPSKIKDKLLHLA PPTNKKEAQCLVGLFGFWRQHI PHLRVLLQPIYQVTLKAAIFEW GPEQEKALQQVQAAVQAALPL GPYDPTDPMVLE

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5545	35913	A	5591	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAVALQPLSRTS LKDSSEKSSQWAEQAVYLV VHFAWKEKWPDVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRTSAEEEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLY TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHICYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
5546	35914	A	5592	7	278	SASCTAAFHHQMEVVYTRSGS SRS*RPTIPVIAQWDYDHNGHG GRDGGYPWAQQHELPLTKADL ATATAECPICQQQRPSLSPRCGT IPR
5547	35915	A	5593	1	237	
5548	35916	C	5594	63	116	
5549	35917	A	5595	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDKWIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEEDFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
5550	35918	A	5596	1	354	
5551	35919	A	5597	3	592	
5552	35920	A	5598	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAQVQAALPLGP YDPADPMVLVVSADKDAVWI FHLSGSDRWRRTYRCL
5553	35921	A	5599	1	483	
5554	35922	A	5600	1	1908	
5555	35923	B	5601	141	1569	
5556	35924	B	5602	46	1533	
5557	35925	A	5603	61	448	WRFLGPWRIVSCWFCGWEERR EGSAFFVGIPARMSAARESHPH GVKRSASPDDDLGSNNWEAAY LGNEERKQKFLRLMGA/GKGEE DQKINEELESQYQHSMDSKLSG RYRRHCGLGFSEVEDHDGED

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5558	35926	A	5604	1	404	PWRIVSCWFCGWEEERREGSAFF VGIPARMSAARESHPHGVKRSA SPDDDLGSSNWEAADLGNEER KQKFLRLMGAGKKEHTGRLVI GDHKSTSHFRTGVEDHDGEGDV AGDDDDDDDDSPDP*SPDDSES DSESE
5559	35927	A	5605	2	434	LGPWRIVSCWFCGWEEERREGS AFFVGIPARMSAARESHPHGVK RSASPDDDDFFLFAIMNGK*KIV NSHRCSVKAKSRQQLGSSNWE AADLGNEERKQKFLRLMGAGK KEHTGRLVIGDHKSTSHFRTGE ED*KINEELESQYQH
5560	35928	C	5606	909	1096	
5561	35929	A	5607	1	309	PQPAAMAAYIWVLRHGESA WNLETSFSGWYDATLSLAGHKE AKRGGQALRGLFQVPLAPEAV GTVWCSWRTPCALKQL*PRPL KRRRLILADRHATQPRPQQ
5562	35930	A	5608	93	914	SQSVPHQPQAAMAAYK\LVLG\ RHGESAWNLENRFSGWDDADL SPAGQRGGERFAAQALQDAGY EFDICFTSV\QKRAIRTLWTVL\ DAFDQMWLASGEGLWGFNER HYWGS*PGLN*KQKLAAKIG*G PRLKI\WRRSYD\VPPPPMEPDH PFYSNISKDRRYADLTEDQLPS C\ESLKDTIARALPFWNEEIVPQI KEGKRVLIAAHGNSLRGIVKHL EGLSEEAIMELNLPTGIPIVYEL DKNLKPIKPMQFLGDEETVRKA MEAVAAQGKAKK
5563	35931	A	5609	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\IRQAGIDSLRK IYEIYSDFALKNPFYSLEMP
5564	35932	A	5610	1	663	
5565	35933	A	5611	1	2034	

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5566	35934	A	5612	374	1106	IPVSEKQGSQDWRFFSVYVVKAK GGLIYQLDSYAPTGLRLEKTFAS YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVLVAINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\AQACLPGTREASR HLKILGRQDTFK\HICYQTLTG IKFVVLADPR\QAG\IDSLLRKI YE\IY\SDFALKNP\FYSLEMPIR CELFDQNLKLALEVAEKAGTF
5567	35935	A	5613	1	336	
5568	35936	B	5614	60	2175	
5569	35937	A	5615	2	198	
5570	35938	A	5616	1	449	
5571	35939	A	5617	1	771	
5572	35940	A	5618	18	736	EAMSSKVSRTDLYEAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGT/VQVGTVLIPPS PQCPRACPSAGSR*AGGGHVG TDVLG*FRPPAPGRRGWTDPHP GS*NMRGGVGRPRSPASLRS QAGCW*M*TLRVRLGWLLRSQ TLHRALGTPGLGVTCWCCPK RRLKSTPRPKFSVCVLGDQQHC DEAKAVDIPHMDIEALKKLNK NKKLVKKLAKKYDAFLASESLI
5573	35941	A	5619	24	698	EAMSSKVSRTDLYDAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGTVRLKSTPRPKF SVCVLGDQQHCDEAKAVDIPH MDIEALKKLNKNKKTGSRSWP KKYDAFLA/SQSPLIQADSPKSL GPISLNKGRKSSPSLLTH\NKNM VAKVDEVKSTIKFPNWRRCLCL AVAVGHVKMTDDELVYNIHLA VNFLVSLKKKNWQNVRLYIK SPMGKPQRLY
5574	35942	A	5620	1	843	

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5575	35943	A	5621	3	1215	LLIMADPRDKALQDYRKKLLE HKEIDGRLKELREQLKELTKQY EKSENDLKALQSVGQI\VG EVL KQLT\EEKFIVKATNGPRYVVG CRRQL*QKVSLKPGTR\VALD MTTLTIMEDILPR\EVDPLVYN MS\HEDPG\NVSYSEIGGLSE\QI RGI*GEVIGLPLYKPQSYFQRVG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGRRFSEGTSADRE IQR TLMELLNQMDGFDTLHRV KMTMATNRPD TLDPALLRPGR LDRKIHIDLPNEQARLDILKIHA GPITKHG\EIDYEAI\VKLSDG\FN GADLRNVCTEAGMFAIRADHD FVSTGKTS LKAV\RKVADSKKL ESKLDYKPV
5576	35944	A	5622	104	173	
5577	35945	A	5623	1	1140	
5578	35946	A	5624	1	528	
5579	35947	A	5625	1	1083	
5580	35948	A	5626	1	471	
5581	35949	A	5627	1	2322	
5582	35950	A	5628	1	678	
5583	35951	B	5629	213	1477	
5584	35952	A	5630	2	339	FGLHKWGLGLEASSPCGPLTPS YLGFP RPHPGTLGLGRFWPFLA LQSLSETPSHARMPRVTVARTS PETLEISPLRAAT*NHRSSGHTC FRERMLRVSCRLSLDLSSSWVR
5585	35953	A	5631	1	783	

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5586	35954	A	5632	92	2746	ASRMTVLQEPVQAAIWQALNH YAYRDAVFLAERLYAEVHSEE ALFLLATCYRSGKAYKAYRL LKGHSCTTPQCKYLLAKCCVD LSKLAEGEQILSGGVFNKQKSH DDIVTEFGDSACFTLSLLGHGH VQTERAAKGTA FSPKRLCLHTF PWTPLLEPLVEIGERPLPHQTFN FTS*RN FANCLHTSGTKQVTN HVFSHRQPETVLTETPQ\DTIEL NRLNLESSNSKYS\NTDSSVSYI DSAVIS\PDTVPLGTG\TSILSKP VQ\NKP\KTGRSLLGGPAALSPL TPKF\WGFLPIRKPPSPG\DG\SY LQNYTNTPPVIDVPSTGAPSKK TFRVLQSVARIGQTGTSVFSQ SGNSREVTPILAQTQSSGPQTST TPQVLSPTITSPNALPRRSSRLF TSDSSTTKENSKKLKMKFPPKIP NRKTKSKTNKGGITQPNINDSL EITKLDSSIISEGIKISTITPQIQAF NLQKAAAEGLMSLLREMGKG YLALCSYNCKEAINILSHLPSHH YNTGWVLCQIGRAYFELSEYM QAERIFSEVRRRIENYRVEGMEIY STTLWHLQKDVALSVLSKDLT DMDKNSPESGTQRGRESPRMC GADSQIEKSQSSYFIQDLSRFDY VKFAVVTKIRAWCAAGNCFSL QREHDIAIKFFQRAIQVDPNYA YAYTLLGHEFVLTEELDKALAC FRNAIRVNPRHYNAWYGLGMI
5587	35955	A	5633	260	678	GEFSIFFWVWN*LLLWHQETFS I*NL FSSH*TSITYQATEEGFDFII QMKLIHFGDSIFIY\KLLILNRK P**EAAISI*V*TWRSRFSHFQLR *HQTQVTNHSWFTEAR*LTDLV KSKSPTIPCSRFKANTLF**SDP
5588	35956	A	5634	1	1452	
5589	35957	A	5635	2	1563	
5590	35958	A	5636	1	444	
5591	35959	A	5637	2	345	

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5592	35960	A	5638	2	1721	RSREAAAVAAAAATTAFGCRI WNPCAALTMKQSSNVPAFLSK LWTLVEETHTNEFITWSQNGQS FLVLDEQRFKAIKPKYFKHNN MASFVRQLNMYGFRKVVIDS GIVKQERDGPVEFQHPYFKQGG DDLLENIKRKVSSSKPEENKIRQ EDLTKIISAAQKVQIKQETIESRL SELKSENESLWKEVSELRAKHA QQQQVIRKIVQFIVTLVQNNQL VSLKRKRPLLLNTNGAQKKNL FQHIVKEPTDNHHHKVPHSRTE GLKPRERISDDIIYDVTDDNAD EENIPVIPETNEDVISDPNSCSQY PDIVIVEDDNEDEYAPVIQSGEQ NEPARESLSSGSDGSSPLMSSA VQLNGSSSLTS\EDPV\TMDGFP FGMDNIQSFWGRVELLDYLDL IDCSLEDFQAMLSGRQFSIDPDL LVDLFTSSVQMNPTDYINNTKS ENKGLETTK\NNVVQPVSEEGK ENLKSKP\DK\QLIQYTAFLPLAF LDG\NPASSV*TGRTTASFRKF CPL*DKPIEVDLELDSSLDPEPT QSKLVRLEPLTEAEASEATLFY LCELAPAPLDSDMPLLLDS
5593	35961	A	5639	2	251	
5594	35962	A	5640	70	297	QLRSPLKWKKAQRQPLAIAHV LLLRPRKKRQNGFFTVRYARLL STLPRSWRR\KQWY*AQNHVRS PEWKWHYQSL
5595	35963	A	5641	3	985	
5596	35964	A	5642	1	3501	
5597	35965	A	5643	1	1752	
5598	35966	C	5644	1	879	
5599	35967	A	5645	21	519	LHIPVRTLSRCFVGVCWRSTPG PVCLGISSGGCRTVDIAALQLW LRGLALPEQLLRVDHPQACRR LPREPPGPGQTFGTREPPQAVS TKEASSNLHAPERTVAGLTFT TEQVRALEGVFRHHQYLGP RNWLAREMQLS\RSR*KPGFKI AG*NTNGKCRTPS
5600	35968	A	5646	90	2401	
5601	35969	A	5647	776	1018	
5602	35970	B	5648	1	1296	
5603	35971	A	5649	1	1257	
5604	35972	A	5650	731	4841	
5605	35973	A	5651	325	9497	
5606	35974	A	5652	1	322	
5607	35975	A	5653	1	819	

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5608	35976	A	5654	56	251	
5609	35977	A	5655	149	701	
5610	35978	A	5656	3	415	
5611	35979	A	5657	3	467	AIASPRAAGIRHELTSTMAAGK NKRLTKGGKKGAKKKA V/DNII NIGKTLVTRTQRTKIASDGLKG RVFEESLADLQND\TDGYLLRVI *VAFTTERTNQI/REVFNKLIPDS IGKDIEKACQSIYPLHDDFARK VKMLKKPKFELRKLMEHGE
5612	35980	A	5658	2	418	PRVRADGKNFRLTKGGELGAR NKVVDPFSKKDWYDVKAPAM FNIRNIGKTLVSRTQGTKIASDG LKGRVFEARLADLQNDDEVAFIK CKLITDDVHGKNCLTIFHGMDL TRDKM\CSLGKKWQTMIEAHV DVKTDDGYLL
5613	35981	A	5659	3	121	
5614	35982	A	5660	1	237	
5615	35983	A	5661	25	967	FSPAAGIRHEGSLTSTMAVGKN KRLTKG\GKKGSKKKVVDPPF R\KD WY*RRKHPLMFHYKNIG KTLVTQDPKGPKIA\SDGLQGF VCLKVSLADLQ\NDEVASRK F RLITEVCFRGKNLP*LTSHGAW DLYPVTKMCSHGQKNWQTM DSSR*MFKTNPBGYALRLFLC \VGFT*KNRNQFRLRKAPPYAS ATQQVPPKSRKKMME\IMTPR GARQNDLEKKWVNKLIPRQAL GKDIRKGPAQSYFIPL\HDVLR EKLKLEGGSPKF*IGESSLGASM GGRVVPGKSHLGTQTGAKVG TSLMGYEPPVPRILV

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5616	35984	A	5662	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLNFIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM

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5617	35985	A	5663	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDA EKAFDKIQPPF MLKTLNKL ELET TVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSL FNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIK TLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRHAPFSIH THIMFGSLYLQIQKDLSILGFW YPRGILEPIY
5618	35986	A	5664	1	1910	MTIIIIIIIIITIIIIIVHIITINIVIT TTILTTVIISSTIIIIITIFVFETGAI KLEIRIKKLTQNRSATWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTCQNLWDTFKAINKID RPLARLIKKKREKNQIDA KND KGDITD TTGIQTTIREYYKHLY ANKLENREEMDKFFD TYTL PRL NQEEVESLNR PITGSKIEEII NSL SIKKSPGPDGFTA E FYQRYKEE LVPFLLKLFQSIEKEGII LNSCCE ASII LIPKPGRD TT KKENFRPISL MNIDAKILNKTLANRIQQHITK LIHHVQVGFIPGMQGWFNIRKS INNWKKTTLKLIWNQKRACITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEIIPHTYNYLSFDKPDKN KKWGNNSLFNKWCWENWLAI CRKLKLD PFLTLYTKINSRWIK DLNFGTETIK TLEENLGN TIHDI GMGKDFMSKTPKAKATKAKID KWDLIKLSFCTAKETTIRVNR QPTWEKIFAIYPSDKGLISRIY KELKQVYKKKTNNPIKKWAKD TNRHFSNEDIYAANRHMKKCS SSLAIREMQIKTTMRYHLAPVR MTIIKKSGSNRQ/W*ASGHVRC

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5619	35987	A	5665	1	2460	MPHAGHARSPGHTLIKLAIEWW MSRWMEWNPGFPLSIDAKCHK DLPRDIQFDSEKGVDFVLNYSK ALNQEEVESLNRPTGSEIEAIIN SLPTQKSSGPDGFTAIFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRYTHKKNFRPI SLMNIDAKILNKILANRIQQHIK KLIHQDQVGIIPGMOSWFNIHK SINVIQHINRTKDKNHMIISIDAE KAFDKIQPFMLKTLNKL\GIK YLRIQLTRDVKDLFKENYKSL NEIKEDTNKWKNIPCSWIGRMN IHKMAI/LPKVIYRFNVIPIKLPM FFSELEKSTLKFIVNQKRARIAK TILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEMTPHIYNHLIFDKPDKN KQWGKDSL FNKWCWENWLAI GRQLKLDPFLTPYTKINSRWIK DLNVRPKTIKLEENLGNTIQDI SMGKDFMSKTPKAMATKAKM DKWDLIKLKSFC TAKETTIRVN RQPTWEKFNFAIYSSDKGLISRI YKQLKQIYKKKTNNPIKKWAK DMNRHFSKEDVYAANRHMKK CSSSLAIREMQIKTIMIYHLTPV TMAIIKSGNNRCWRGCGEMG TLLYCWWDCCLVQPLWKT LW QFLRDLELGIPFDPAIPLLGIYPK DYKSCCYKDTCTPKLARDQI HILKQHRRKELETRQKQYRAW
5620	35988	A	5666	689	1909	LIA YQPKSRTRWIHNQILPERI KYLGIQLTRDVKDFLKEYKPL LNEIKEDINKWKNIPCSWIGRIN LVKMAIL/PQAICRKLKLDPFLT TYTKINSRWIKDLHVRPKTTKT LEENLGNTIQDIGMGKDFMSKT PKAMATEAKIDKWDLIKRKSFC AAKETTTRVNRQPTDWEKMFA IYSSDKGLISRIYEELKQIYKKK TNNPINKWAKDMNRHFSKEDI YAANRHMKKCSSSLAIREMQIK TTVSPFAAQWVSQRYGKWQEA HPSNNDGKGYRGKPRFQSLSD VHGPDQDKKIIKESALPPTPTFI NILMNAKTIENGQFPYLLNALK QQQPHDAENLFTWGKENAAIV SPCIEVSAALSQWKVPAWPQRS GIPNRILRSPIPGLGSWVAFLDL VWVRGDPTALK

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5621	35989	B	5667	1	1962	
5622	35990	B	5668	1	1851	
5623	35991	A	5669	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDA EKA FDKIQQLFMLKTLNKL GIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGS LFNKWCWE NWLAI CRKLKLD PFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITI QDIGMGMD FMSKTPKAMAT KDKIDK WDLIKLKS FCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYA AKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
5624	35992	A	5670	2	1967	

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5625	35993	A	5671	1039	2272	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLELEETT VKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWY WYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSLFNKWC WENWLAICRKLKLDPF LTPYTK INSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSDDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKSGNN
5626	35994	A	5672	1	3477	
5627	35995	A	5673	1	2814	
5628	35996	A	5674	1	2093	
5629	35997	A	5675	1	2724	
5630	35998	A	5676	1	4680	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKDPGPD GFTAIFYQRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAIPIKLPMFTFTELEKTTL KFIWNQKRARITKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRAPSEIML PIYNYLIFDKPDKNKQWGKDSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIK
5631	35999	B	5677	1	1989	
5632	36000	A	5678	1	2784	
5633	36001	B	5679	1	3573	
5634	36002	B	5680	1	2630	
5635	36003	A	5681	5339	10577	
5636	36004	A	5682	1	873	
5637	36005	A	5683	1	672	
5638	36006	A	5684	1	435	

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5639	36007	A	5685	1	1011	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATHANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGSVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDKM\VNRRINSVEK TLNDPMELKTMARELCDACTS FSS*FNQVEEKVSVIEDQMDDEM K*EEKFREKRVKRNEQSLQEIW DYVKRPNLRL
5640	36008	A	5686	1	1539	
5641	36009	A	5687	1	756	MDDPRLNVKPLTESLETYSGKS KLEGDVITDSKLNDCRCPST KLPEEGLGSNICCSAIFAVLQPL LVIPRQTGSGVDHQQTPTDLRM TVRRKMNKQKGIASSTKRTK KDIHTKTPSVCHQHQRPKDCSP SPATEQSWMENDLEELTEIGFR RSVITNFSELKEDVRIHHKKAK NLGKRLDEWLTRINSVEKTLND LMELKTMARELHDSCTSFNSRS NQAEKVSVIDQFNEIKREEK FREKRVKRN
5642	36010	A	5688	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATHANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGSVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACT FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
5643	36011	A	5689	1	672	
5644	36012	A	5690	1	807	
5645	36013	A	5691	1	1617	

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5646	36014	A	5692	1064	1893	LLEGSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSASSPPKDCSSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLKK RLDECLTRINSVEKKTLNDLME LKTMAQELHDTCTSFNTQFDQ VEERVSVIDQINEIK*EEKFRE KRVKINE*SCQEIWD*VKRPNI HLITVPESDGEKGTKLENTLQDI IQENFHNIARQANIQEIQRTA QRYSSRTATPRHIIVRFAKVEM KEKVLRAARKKG
5647	36015	A	5693	3	620	EAGWLLSSVDEVMKENDEL DSISQLQKQILSLKSAKIALTESL ISFRERAEIVEKQTQALIM*VAD LQQGNDQTFQGLDGTSELTLI PGDPKHHCPPGPKVRA YGDQ VINGVLAQVQLIVGPVGPWTHP VVISPVPECVIGIAILNSWQNPFI GSLTGRVRAIMVGISWQCGQY TFTVLPQRYINFALCHKTAKR HTARR
5648	36016	A	5694	1	1098	
5649	36017	A	5695	2	563	IIRRAVFRWFWG*RSWGLNMIR PQNTKDSNSNCLEKTDSPWCEL FKELYKINAFDTPDSLLMRGNE FSDPIHHTFDHMWRTKEHNEA GWLLSSVDKVMKENDELGDS ISQLQKQILSLKSAKIALSESLS CRERAEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTDP
5650	36018	A	5696	1	499	FVLVDVNNMWHRYASMLYER RLLIICSKLSTLTACIHGFAAML YPMYWQHVIIPVLPPLLDDYC CAPMPYLIGIHLMEKVRNMA LDDVILNVDNTLETDFDDLQ SLPNDVISSLKNRLKKVSTTTG DGVARAFLKAQAFFGSYRNA LKIEPEEPITFCEEA
5651	36019	A	5697	1	795	
5652	36020	A	5698	103	3531	
5653	36021	A	5699	1	2073	
5654	36022	A	5700	1	901	
5655	36023	A	5701	148	639	
5656	36024	A	5702	1	318	REYGTQPQEQNLALLTLNFLSL PKGQMLSAAEHLQKPAakte A/GRMIWQRDPITKIWEIGKIIT WGRGYACVSPGQNHQSVWIPS RHLKSCHGPDAKEEIPGGS

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5657	36025	A	5703	1	612	PTRPIKHITDIPYNSEGQAIVER MNLSLKQQLQKHKKGGK/SKD YGTPHMQLNLALLTLNFLSLPK GQILSVAEQHLQKPAAKTEAEQ LVWWRDPITKS*EIGKIITWGK GYACVSPGLTQQPIWIPSRHLK PYHEPDAAAAEIPGGSRGPPPPV/ DSHVETDAEEEPHCHEQHLSNT ATHLGTDAQEAVTAGGRKPEES KTTSHNK
5658	36026	A	5704	2	791	
5659	36027	A	5705	2301	2620	DGQQIALHRLALRELQQAGH AGLPQQA KILFDGGSEIGKIRGL QRPRAKNRLSGRGLREPSPK*F FGVQGRKTLNRTLKGAPH*NL AAKAGKPLSPCTSGRIRM
5660	36028	A	5706	1	1010	MDDIPQEAGRYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ GSDLVLYGTSTPKNLIWVRVH VVGHRPDRRFFAFDVWSPRSLI VDSCSKLEQHSTLSRAILLIYKG FCRFRNHHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGFPTGKRAVSATQLMD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQANVQQFIDEGNYTS GDNHTLRDPHYVEDKGHKYLV FEANTGTENGYQGEESLFNKA YYGGGTNFFRKESQKLQQSAK KRDAELANGALGIIELNNDYTL KKVMKPLITSNTVTDEIERANV FKMNGKWYLFDSRGSKMTID GINSNDIYMLGYVSNLTGPYK PLNKTGLVLQMGLDPNDVTFT YSHFAVPQAKGNNVVITSYMT RGSSR*RQRP*IPCIRSQHGNRK RIPR/SKNLYLTKRTAAARTSS VKKARSFSRALKNAMLS*RTAP
5661	36029	B	5707	1	1149	
5662	36030	B	5708	55	3947	
5663	36031	B	5709	4	885	

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5664	36032	A	5710	461	1560	SLQTRDLPSEPPSNRIFACWGK PAWTACCNSLRARR*RAISCCP SH*KRIPRRRIFI*PKRTTAAART SSVKKARSFSRALKNAMLS*RT APSVS*S*IMITH*KK**SR*SLQ TRDLPSEPPSNR\FSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGIPDWKAGSERNAI NGAIALIEGFRPLTLEPSSLIVNS CSKLEQHSTLSRAILLIYKGFCR FRNHHQTGFSPAGPNQRGPLAA TLSPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAA GTTGFPTGKRAVSATQLM
5665	36033	B	5711	1	1458	
5666	36034	B	5712	1	3573	
5667	36035	A	5713	606	1005	GGMLCGTSLSPDGEGQSAVAR LTGEKKHPRGDQ*QKAPLLAR W/RNPLMQLAQ/PDFPTGKRAI DTHRSVSHAHIIIHSSTLSSDIS HTDAPNTSSNNYVIAITSPSDTA PTSRTPLHRJHHTTPIPIATLARP
5668	36036	B	5714	1	1566	
5669	36037	C	5715	29	2314	
5670	36038	A	5716	597	1384	ISYTVPEALSARSNPAACQHAS CRPAACPVASVGSPPQAPGGA GGHRHWPRRRWRLRQRPRPSA PGRPRRPRRPRRHHRRRPRPHP HHAPPPRPSCAETRS\RRGGRR PLPRPLPPGAAGAGHREVGDK AGAAGCGRRVVALAA\VPSPPS SPSSPSPLLAAVGVAGCFSAE LSDSRLLAPGGEGPLARSPAR CDPAAGSACPAGWSSRQSRRC ELMCAAGISCWHTGHCTWCSL SFMPLVLMILAASFRPVAVSSH
5671	36039	B	5717	1	3873	
5672	36040	C	5718	356	784	
5673	36041	A	5719	1303	1664	KRRDEIIPCVLKQLLVTFITCR ASCINESANARGEAVCVLGAR VV/SSFHQ*DGQQLIALHRLALR ELQQA VHAGLPQQA KILFDGGS EIGKIPYKSKE*PENRLSVVPVW EESTLASV

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5674	36042	A	5720	453	915	TVSRWAMLEHILLFSREPSNKE PET*AHSM*ADDKRFAAYKKK TKGGTERWDKYGRRPANGIRT GENNAKTEHLRDRDQKR/PRER ERAR*TTEITEQEGSG*GEPVEQ MRKRRAQAWSRRKSTGSQTET RSVRVTRVGLKTASESRRI RTM EQN
5675	36043	B	5721	319	1469	
5676	36044	B	5722	164	3112	
5677	36045	A	5723	1	1102	MRWTPGHEITKALQTFQRYTGI QHVRHIGMAERMWCDNRER HTVSSSGGNRLPNPEHFEAFQS VAQCTYNQTVQLDITAFKTV KKNKHKFYPAFIHILARLMNAH PEFRMAMKDVDSCKLEQHST LSRAILLIYKGFCFRNHHQTGF SPAGANQRGPLAATLSGPGGEG QSAVARLTGEKKNHPGAQYAN RLSPRVGRFINAAGTTGFPTGK RAVSATQLIYRELFQPLVQLD PCSVPCMQPPTSPKSRAWVSDI ALLEFQKKKEMEKKKEKERKK ELQGGRRRRGGGWGKGRER GGRGKKRRGGGEAIRDAEKAG RLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGTRLRRAEDVFPP VIGVAAHKGGVYKTSVSVHLA QDLALKGLRVLLVEGNDPQGT ASMYHGWVDPDLHIHAEDTLLP FYLGEKDDVTYAIKPTCWPG DIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVHPAWGS AISLLEYS PGHLAGFVASIPAPL QLVPRWDTKPVLEDASASSRFS IPQRNPTLHPTTSFPSCNPDTV DAWMRFLITWCLYTSPYSTLM GELFFPYQGMLLESTKQGSQVR KVFWVTLVPNWNNTQPYSRAI LLIYKGFRCFRNHHQTGFSPAG ANQRGPLAATLSGPGGEGQSA
5678	36046	B	5724	90	6258	
5679	36047	A	5725	837	1485	
5680	36048	A	5726	1	2993	
5681	36049	A	5727	1	123	
5682	36050	A	5728	1	960	
5683	36051	A	5729	507	755	NKRGYKQMEEHSLMGRKNQ YRKNGHTAQGNL*IQCHPHQA TNDFLHRIGKNDFFQVHMEPKK SPHRQVNPKEQSWRHAT

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5684	36052	A	5730	274	882	PDQVDRGGAHWQTDADDPWL ADHLQHCQRCGEILRHYSGGIR GNVSAVKCAEHHVPAFARLRN PQCGDFQRLDYRLFDSPGVKRR EL*TA YRFCHVAP*LMDLRSG WAAGAVYRYQSH*FTADRLRS VDMDEAGNHHSQQTSQDQKI KQRTFSLISGS*TTRTHGHREGN ITHRGLSRPNTARILCASKAHLG LPLRSSLP
5685	36053	A	5731	114	329	
5686	36054	C	5732	1	1983	
5687	36055	C	5733	1	588	
5688	36056	A	5734	1	597	
5689	36057	A	5735	1	721	MTSYNEQNKKPVTDPNEMAIH EDSNQEFKIAVVNETQSRSPSSP TEHLMTPPPLPTREQQPPLTVIF HYLPKSYKTAPPLSPFPDSLFGL SQPAPRDMDEAGNHHSQQTK QEQKTKHCMFSLTSGS*TMRTH GHREGTVIHRGLLGQFSQQLIN KSEFSNTVCREKSGRVLQVNM ESPL*MIQDALQDQTPKGPITV FL*LFYLDHLLRSSHKVASYLST ESRSRGSITVLFIRCSEP
5690	36058	A	5736	417	696	DRNRKANTACFQHSQVGVEQ* EHMDTGKV*SI*YGNYEHTSTC ERMEIQKATTEHLNL*S*SGSFL RFTWKMLQFSKISR SFYQVLKH QQKIM
5691	36059	A	5737	325	1489	RSPTLLMHVHYIKVISWRELLLI WLRAANASINPGVEQSPSGDPK TVTGFPFLRLEAADWVEEASVP KGVHIALSSQEQRAGDPRDLEA PSNLVISERTHR SFRVSWTPPSD SVDRYKVEYYPVSGGKRQEVV RTPGV PDLRLPAIIPQAAWLLA HLPAPSAPTELPTKHTEAQSQ RCWSLLCSVTEVAAPSQVVK EAPPSFHTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGHIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLF TDSRGSKM TIDENKIPRNPTYKGREGPLQGE LQTTAQGNKRGYKQMEEHSM LMDRKNQYRENGLTAA\PPPP PSGI*GYTAPCFPWENLI
5692	36060	B	5738	1	873	

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5693	36061	A	5739	274	716	QACYIYTTEYYAAIKNDEF/TVL CRDMDEAGNHHSQQTVTRTKN QTPHVLTHRWELNNENTWTQE GEHHTPGPVMLDSAPPTLGHQT PGSSAFGLWDLHQRLRLPRPQT KGSTVGFPFGSEAFKLGLGHYW LSFFPSLQTA YRGTL PPNH
5694	36062	B	5740	134	2283	
5695	36063	A	5741	3	872	
5696	36064	A	5742	1	480	SKLNSGDGCWSGARRGSAHSR SPLPSPLRPRAKMATTEGLHENE TLASLKSEAESLKGLKEERAK LHDVELHQVAERV/VGPGAVC HEDQKDPQRPREQSPVHGLVQ R*EEDRELVTGWEGDRVGFLH HKQGARGHHALHVGDGMCLC PIGMCHCLWWFG
5697	36065	A	5743	3	387	AKMATTEGLHENETLASLKSEA ESLKGLKEERAKLHDVELHQ VAERV/VGPGAVCHEDQKDPQ RPREQSPVHGLVQR*EEDREL VTGWEGDRVGFLH HKQDPDSER RWHMCPVGRGERAAAAELPRT
5698	36066	A	5744	1	1575	
5699	36067	A	5745	20	510	
5700	36068	A	5746	1	1392	
5701	36069	A	5747	1	1560	
5702	36070	A	5748	3	325	
5703	36071	C	5749	206	409	
5704	36072	A	5750	1	855	
5705	36073	C	5751	233	571	
5706	36074	A	5752	1	3600	
5707	36075	A	5753	1	4137	
5708	36076	A	5754	3	1357	
5709	36077	A	5755	3	194	
5710	36078	A	5756	3	269	
5711	36079	A	5757	1	1770	
5712	36080	A	5758	164	411	RKNRKPNTAFLTHKWELNNEN TWTQGGNITHQG/CWGVQG*R RDSIRRNT*CKCRVPGCSKPPW HVYTYVTNLHILHMYPR

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5713	36081	A	5759	1	3095	MKMADAKQKRNEQLKRWIGS ETDLEPPVVKRQKTKVKFDDG AVFLAACSSGDTDEVLLKLLHR GADINYANVDGLTALHQACID DNVDMVKFLVENGANINQPDN EGWIPLHAAAASCGYLDIAEFLIG QGAHVGAVNSEGDTPLDIAEEE AMEELLQNEVNRQGV DIEAAR KEEERIMLRDARQWLNSGHIN DVRHAKSGGTALHVAAAAGY TEVLKLLIQAGYDVNIKDYDG WTPHAAAHWGKEEACRILVD
5714	36082	A	5760	1	591	FTVTRCYAVAQEGTYFDGSGY AALVKEGYKVQSDVNITLEVS N\PRRNGVFLGISTAIVHAIGLEL VDGKVLHVNNAGAJTAAEY PKTATVLC DGKWH TLQANKSK HRITLIVDGNVGAESPHTQSTS VDTNNPIYVGGYPAGVKQKCL RSQTSFRGCLRKLALIKSPQVQS FDFSRAFELHGVFLHSCPGTES
5715	36083	A	5761	340	739	
5716	36084	A	5762	1234	1897	
5717	36085	A	5763	1	4070	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSQQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
5718	36086	A	5764	1	972	

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5719	36087	A	5765	1	2193	MVPYSLLVTWLQKALGVRQY HVASVLCQRAKVAMRPFEPKY IHVDLLEKNINIVCK*LNRPLTL SEKIVYRHPDDPTSQEIERGGTY LQQWPDSVTMQD/ATAQMAM LQFISSRL/SKVTMPSTIHCDHLI EAQLGSEKDLHQAKDINHEVY NFLATGSVKYGLSFWKPGSGII HQIILENYEYPGVLLIGTDSHTP NGGSLGGICIGVGA/DAVDVM TGIPWELKCPKVIGVKLMGSL GWTSPKDVILKVAGILTMKGG TGAIVEYHGPVVDISCTGMVT VCNMGLEIGTTTSVFHYNLRM KKYMSKTCQADIANLADEFKD HLVPDPGCHYDQLIEVNPSELK LHINGPFTPDLAHPVAEVGKVA EKEEWPLDI*VGLWGSCNTSSY EDMGCSAGVAKQALAHGLKC KSQFTITPCSEQIRASIEQDGYA QTLRDVGGIVLANACGPCIGQL HRKDINKQEKNIIVTSYNRNF GHNDTNPETHAFITSPETVTAL AIVGTLKFNPETNYLTGKDGGK FKLEAPDADELPAEFGPGQDT YQHP/PWGTTDHISAAGP*LKFR GHLDTISNNLLSGAINIENGKAN SVHDAVTHEFGFPDRTARYKK YGISWVIGD*NYGKGSSWEH AALEPRHL/GGRAIITKSFARIHE TNLRRQGLLPLTFADPADNKIH LVDKLTIQSLKDLT/PGKPLKYI
5720	36088	B	5766	3	1205	
5721	36089	A	5767	435	1428	
5722	36090	A	5768	1	615	
5723	36091	A	5769	79	381	DKPQPHLQHTRTSKRLNRSSQA FLQNLLPQELATSAGNLAIRPR NACSLGFLVSRVPSLAATPRAP WNSGPRLSD*LLPRSSRLSS*RL TLPDRLGSPVDH
5724	36092	A	5770	38	452	
5725	36093	A	5771	435	524	
5726	36094	A	5772	284	411	
5727	36095	A	5773	1	354	
5728	36096	B	5774	1	942	
5729	36097	A	5775	1	417	
5730	36098	A	5776	88	279	EDLGRSQSES LGPEFQG*VVAIE TIWPTPKIFTICLSGSHSQSPW NSGPRLSD*LLPRSSQLSS*RLT LPNRLRSLQDHHRCR

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5731	36099	A	5777	206	816	FIDSM LSPSR YQ* LSSQN WKKL L*ISYGT KNEPA*PKQS* AQR TK LEASH* LTSNCTT SLH*SKQHGT GTKTEKKT* AIPFRT*AWAKTS* LKHQKQWQQKPK*TKKIKYLG IQLTTDV KDLFKENYKPLLNEI KEDTNK WKNIPCSWIGGINIMK MAILPKVIYRFNALPIKIPMTFF TELEKTTLNFIWNQKRARIAKTI LSTKNKAGGITLADFKLYYKPT LVKTAWY WYQNR EENLGNTIQ DIGMGKNFM TKTPKAMATKA KIDKRD LKPKSF CIAKETTIRM NRQPT EW EKLFAIYPSDKALIS GIYKDLKQIYK KKN NPIKKWA KEMNRHFSKEDIYAANRHVK N AHHHWSSEKCKSKPQ
5732	36100	A	5778	502	600	
5733	36101	A	5779	51	452	ADKQLQQSLRJQNQCTKITSILI HQQQTNREP NHE* TPIHNC FKE NKIPRNPTYKGCEGPLQ GELQT TAQGNKKGYKQMEHSM LMG RKNQYRENGHTAQELEKTKVH MEPKKS PHRQVNP KPKEQSWR HHTT
5734	36102	A	5780	381	528	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5735	36103	A	5781	1	477	
5736	36104	A	5782	180	496	TPIHNCYKENKIPGNPTYKGCE GPLQ GELQTTAQ* NKR GQKQM EEHSM LMDRKNKYHEN/EPYSP R*FIDSM PPSNYQ* LSSQNWK KLL*GPYGT KKEPT*PRQS
5737	36105	A	5783	1	533	MGPEICTSDKLSDEADVTVLEV LARAI RQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLG IQLTRDV KDLFKENYK PLLKEIKEEHSIK WKNIPSSWVG RISIMKTAILPKVYIRIKDDEWN IYRRYTEFRSLHHKLQNKYPQV RAYNFPPKKAIGNKEAVLCHG R*HDCISRKPHRLSPKSP*ADKQ LQQSLRJQNQCAKITSILIYQ*QT NREP NHE* TPIHNC FKENKIPRN PTYKGCEGPLQ GELQTTAQGN KRGTFHQMEHSILMGRKNQY HENGHTAQGLHPDKRR

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5738	36106	A	5784	599	870	TPANQQHYRRMTLQLKENQTN RKRRQQKHQQKRPHKNPIQRS ATSKIKGDGSIQP*MLPWGQSP QKALTALATAPEQRKDTTPVRGL SLQD
5739	36107	C	5785	1	1170	
5740	36108	A	5786	317	960	KWPYCPRQFIDSMPSYQRL SSQNWKLL*SSYGTKKEPTSP SQS*AKRTKLEASRYLTSNYTT RLQ*PKQHGTGKTEI*INGTQQ SPQK*/QPHVYNYLIFNKPEKKK QWGKDSL FNK WDMDEVGNHH SQQTITRTGNQTPHVFTHRWEL NNEITWTQGAGHHTPGPVVGL GAGRGIALREIPNANDELMVQQ TNMAHIYLCIKPARCADVP
5741	36109	A	5787	903	1050	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5742	36110	A	5788	281	491	SFGYIPSNMAGSNGISSRSLR NRHTDFHNG*TSLSHQCKSV PISPHPLQHLLFPDFLMIAILTGVR
5743	36111	A	5789	1	381	
5744	36112	A	5790	1	3231	
5745	36113	A	5791	1312	1463	KGSATCSPQANATTTALQML GGIPWGNACGIFTRPPPQTYLN THLSTR*RPLLLLKCVR*KGSA TCSPQANATTTALQMLGGIP WGNACGIFTRPPPQTYLNTHLS TR
5746	36114	A	5792	811	1065	IS*VSFMSITH**WKKKEQQLLG CWLA*M*SMLICV*RERI*THKL E*LIILCI*RMKKILEIQGMFKL LPY*TKRIMLK/TLNRQLNSTVS SLHSRVDSEKSNTKLIEELAIA KNNIIKLQEENHQLRSENKLIL MKTQQHLEVTKVDVETELQTY KHSRQGLDEMYNEARRQLRDE SQLRQDVENELAVQVSMKHEI ELAMKLEKDIHEKQDTLIGLR QQLEEVKAINIEMYQKLQGSSED GLKEKKEIIVRLYWSALCG
5747	36115	A	5793	1	1353	
5748	36116	A	5794	78	503	TKELLHSCRNYHQSEQATYRM GENFCNLLI*QRANIQLQ*TQT NLQEKNKQPHQKVGEGYQQTL LKRRLCSQKTHEKMLIITGHQ GNTNQNHNEIPSHTS*NGDH*K VRKKQGHG*SWKPSFSANYRK DKKPNTSCSHSQ

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5749	36117	A	5795	2	200	YGLMIRTIPVDPTIRTTSVSLTV RLATMNP RSRPAPVDVAPGPP HLHKNQKSSQHSQYLDLTSYC
5750	36118	A	5796	76	195	
5751	36119	A	5797	1	2445	
5752	36120	A	5798	207	475	TNLQEK NKQPHQKV GKGYEQT LLKRKHSCSQQTYEKMLIITGH QRNANQN HNDIPSHSS*NNDH* KDRKQQMLERM*RNRNAFTLL VGV
5753	36121	B	5799	1	681	
5754	36122	A	5800	1	798	
5755	36123	C	5801	78	245	
5756	36124	A	5802	16	491	EPYPDRPREPKRDPESWGLW DKGGLVLSLGRTRTEAHTALS RLRASMWIDRSTRASVHFTLY NPPTQLFTSVSLRVEILPTGSLV PSSLVESFSIFRSDSALQYHML PQLVFLALSLIHLVCVQLYRMD KGVLSYWRKPRNWLEVASLVS FSFEK
5757	36125	A	5803	3	2791	
5758	36126	A	5804	219	392	
5759	36127	A	5805	1	1044	
5760	36128	A	5806	1	360	
5761	36129	A	5807	1	528	
5762	36130	A	5808	127	360	
5763	36131	A	5809	1	421	GRRSRLAMRPLSMSYSFDLSDV TTPESTKNLVESSMVNGGLTSQ TKENGLSTSQQVPAQRKKLLR APTLAELDSESEEEETLHKSTSS SSVSPSPFPEEPVL\EA VFTRKKP PKFLPISSTPQPERRQPPQRRHSI EKETP
5764	36132	A	5810	328	1086	
5765	36133	A	5811	1	2076	
5766	36134	A	5812	1	450	
5767	36135	A	5813	901	1506	
5768	36136	C	5814	17	106	
5769	36137	A	5815	24	330	ARDQPI/PKKGTVEGFEPADNK CLLRATDGKKKISTVVSSKEVN KFQMAYSNLLRANMDGLKKR DKKNKTKKTKTSSSSSSSSSPA AATAATTAATTAATAAQ
5770	36138	A	5816	1	2247	
5771	36139	A	5817	1	339	
5772	36140	A	5818	3	463	
5773	36141	A	5819	3	83	
5774	36142	A	5820	1	642	
5775	36143	A	5821	2	583	
5776	36144	A	5822	193	409	

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5777	36145	A	5823	3	425	
5778	36146	A	5824	1	450	
5779	36147	B	5825	82	2096	
5780	36148	B	5826	1	1554	
5781	36149	A	5827	129	522	LCTDNIEITSKVHLHCSHHGAG LGTCSPCLSLPPPPWAPVQPEP PR*APPPAPQRPVPSTIQGRKRL QLHS*SQ*DH/DAHAKVCSFTPE PARPRTHQKEETPNTSEHQKKQ TPDTPPLRTVTLTARLHGF
5782	36150	A	5828	1	541	
5783	36151	A	5829	1	714	
5784	36152	A	5830	188	287	KELPSGGHYNCRAPSSPHPAGS S*SGHQPNSSQ
5785	36153	A	5831	71	689	SPVLDDCPQGGLPSEESW/EQPV TRQYPLRPEVHKGLQNVKHLK APGLVRKCSSHCNTPILGVQKP NGQWRLVQDLRLINEAVVPLY PVVPNPYTLLSQTPEEAEWFMV LDLKDAFFCIPLHSDSQFLFAFE DPTDHTSQITWMVLPQGFDRDSP YLFQQAALQDLGHFSSRGTLVL QYADDLLFATSSEASCQATLD LLNFLANQ
5786	36154	B	5832	45	1148	
5787	36155	C	5833	233	319	
5788	36156	C	5834	11	133	
5789	36157	A	5835	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5790	36158	A	5836	1	449	MNKELGISSYKFCGMGRKTSVS AAKSVSATIPISRVQGLLQVLG QEVFLLLCQDQEEQAKREKRD QRKATALAMALRQTNLGGSER IENGAGQSPSRACYQCGLQGHF KKDYPTR/EPAAPCPLC*GNHW KMHCPRGQRSCDSHLAITHL
5791	36159	A	5837	1	723	
5792	36160	A	5838	186	602	
5793	36161	A	5839	1	843	
5794	36162	B	5840	1	1779	
5795	36163	A	5841	1	1182	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5796	36164	A	5842	23	302	LSQWKNRWTRTFLASLSVIANI LEPLLNILHVAVWLMLPN*S*V KKQVIMFWNWWVLGLTDFKN EATDPRVCSWPCWLRSEAADL CGECYSS
5797	36165	B	5843	1	2622	
5798	36166	A	5844	279	1024	
5799	36167	A	5845	3	3619	
5800	36168	B	5846	1	1898	
5801	36169	A	5847	1	420	
5802	36170	A	5848	1	1632	
5803	36171	A	5849	1	597	KYLTKKTKAASVEAVKMLDEI LLQLSASVPVDVMPGEFDPNTY TLPQQPLHPCMF/LATAYSTLQ LVTNPYQATIDGVRFLGTSGQN VSDIFRYSSMEDHLEILE*LRVR HISPTAPDTLGCYPFYFCGNTPS FGSKIIRGPEDQTVLLVTPDFS ATQTACLVNLR/LACQPISFSG FGAEDDDLGLGWAPDSKKW
5804	36172	A	5850	1	1490	RDAARRALNLLGLGEAVWTKQ VRSVAMFSEQAAQRAHTLLSPP SANNATFARVPVATYTNSSQPF RLGERSFSRQYAHYATRILQM RPFLENRAQQHWGSGVGKKL CELQPEEKCCVGTFLKAMPL QPSILREVSEHNLLQPPRSKY IHPDDELVLEDELQRIKLKGTID VSKLVTGTVLAVFGSVRDDGK FLVEDYCFADLAPQKPAPPLDT DRFVLLVSGLGLGGGGGESLLG TQLLVDDVVTGQLGDEGEQCSA AHVSRVILAGNLLSHSTQSRDSI NKAKYLTKKTKAASVEAVKM LDEILLQLSASVPVDVMPGEFD PTNYTLPQQPLHPCMFPLATA YSTLQLVTNPYQATIDGVRFLG TSGQNVSDIFRYSSMEDHLEILE WTLRVRHISPTAPDTLGCYPFY KTDPFIFPECPHVYFCGNTPSFG SKIIRGPEDQTVLLVTPDFSAT QTACLVNLRSLACQPISFSGFG AEDDDLGLGLGP
5805	36173	B	5851	13	441	
5806	36174	A	5852	3	279	

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5807	36175	A	5853	23	841	EKAKEFRRAEEKKKEVPAVPET LKKK*RNFAELKIKRLRKKFA QKMLQRARRKFIHEKAKHYH KEYRQMYRT\EILMA\RMARKA GNFYVPAEPKLAFVIRIRGINGV SPKVRK\VLQLLRLRQIFNGNLL *SSTKAS\INMLRDCRSHILAWG VPQILKSVNELIYKIRGYGKINK KRIALTDNALIARSLGK\YGIL LAWEDLIHEIYTV\GK\RFKEAN NFPVGPSNLSSPPRWK*KKKTT HFCKKVEDAGNREGRTSRNP YLEGMDLRCLP
5808	36176	C	5854	57	287	
5809	36177	A	5855	1	450	
5810	36178	A	5856	1	549	
5811	36179	A	5857	3	581	EQRKIPLVPENLLKKRKAYQAL KATQAKQALLAKKEQKKKGK LRFKRLESFLHDSWRQKRDV RLRRLEVKPHALELPDKHSLAF VVRIERIDGVSLLVQRTIARLRL KKIFSGVFVKVTPQNLKMLRIV EPYVTWGFNPKSVRELILKRG QA\KVKNKTIPLTDNTVIEHLG ECYSLGVSWGRKPGSLKL

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5812	36180	A	5858	1	2652	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLHYHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNILFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTA VPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHLDLHLHYLND ILIINCEFLNDVLT DHELLNRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHLCGAQAADS VTGEIPAIRSLLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVAAV HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPQAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSKGIKTSGESEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNKENLLKKRKAYQ ALKATQAKQELLAKKEQKKGK GLRFLLESFLHDYWQQKPKD
5813	36181	A	5859	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLLGEVRQEETFSIS DSQISNTEFLQVIVKIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVVDLVLLFSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
5814	36182	B	5860	1	843	

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5815	36183	A	5861	3	1260	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGEVRQEETFSSISD SQISNTEFLQVIQIYNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIGWYRFRNTQQQMSYR EQVLHKQLTRILGVPDLVFLLF SFISTANNSTHALEYVLFNRR YNQRISLAIPNLGNTSQEYKV SSVPNTSQSYAKVIKEHGTDF DKDGVMKDIRAIYQVYNALQE KVQAVCADVEKSERVVECSQA EVNKLRRQITQRKNEKEQERRL QQAVLSRQMPSESLDPAFSPRM PSSGFAAEGRSTLGDAEASDPP PPYSDFHPNNQESTLSHSRMER SVFMPRPQAVGSSNYASTSAGL KYPGSGADLPPQRAAGDSGE DSDDSDYENLIDPTEPSNSEYSH SKDSRPMAPDEDPRNTQTSQI
5816	36184	A	5862	1	742	
5817	36185	A	5863	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFPVQNCLS LARSDSREQGLVLMESRNRE VPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAECC GDDEKIKVDDPLTRRTCQASG SAPQQDYDKLKAFFGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
5818	36186	A	5864	2	626	LCQHNRIKHKGIRKVYACSHCP DSRRFTTKRLMLEKHVQLMHS LKDPDLKE/TDRCHQ*GGNRNK RRH/LSSPVPSGSWKNQFSR/CA MCGFTTENLLQFHEHIPQHKSD SSSYQCQECGLWYTSHVLSLRH LFIVHKLKEPQPVSQNGAGED NQQENKPSHEDESPNGTVSDRK CKVCVKTFFETEAALNTHMRIH GMAFIKSKRMSSAKK

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5819	36187	A	5865	1	765	MQRDVYISHVRKEHGKQMKK QPCCQRDKPFSSSHSLCWHNR KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGKDPDLK E/TDRRHQ*GGNRNKRPPQGPQ SQVEVERTGSGVQASQ\GAITQ PLKKLKINVFKVHKCARA\GFT TENLLQFHEHIPQHKS DGSSYQ CREHLFVVHKLKEPQPVSKQN GAGEDNQENKPSHEDESPNG AMSDRKCKVCAKTFETEALN THMQTHGMAFIKSKRMSSDEK
5820	36188	A	5866	878	1095	AFFLDTLYTQFSRC*SRAFPFA HPTAMACSSRR/LIRVQEQDAA QVTHQSFKDDLCVVLGDTLHH RFFLIFRH
5821	36189	A	5867	1	1137	
5822	36190	A	5868	1	1380	
5823	36191	A	5869	55	558	
5824	36192	A	5870	1	897	
5825	36193	A	5871	1	565	
5826	36194	B	5872	22	1696	
5827	36195	A	5873	295	522	
5828	36196	A	5874	3	3678	IPAPVSGRPPPGLLAEGKLSGPR PMCRTRLGSHTAASAPARMWL FHTLLCIASLALLAAFNV DVAR PWLTPKGGAPFVLSSLLHQDPS TNQTWLLVTSPRTKRTPGPLHR CSLVQDEILCHPVEHVPIPKGRH RGVTVVRSHHGVLICIQVLVRR PHSLSSELTGTCSLLGPDLRPQA QANFFDLENLLDPDARVDTGD CYSNKEGGGEDDVNTARQRR LEKEEEEDKEEEDEEEEEAGT EIAIILDGSGSID
5829	36197	A	5875	1	3189	

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5830	36198	A	5876	1119	2463	LRAGGPGQGKGPAHPGRRVD ELLGLGHPTAVGCAKGTDCPTPT PGGLWV*GVQEESDLPTAVDS SRPDIRDQAWASVHWELVYVHG SSFINT*GERGAGY/AVITW/STV VEARSMPOGTSAQKAELIAFIR ALELSEALAKTVRQRCVSCRQ HHARQGPAVPPGIQAYGAAPFE DLQVDFTEMPKCGDIRKIVTGD VNTPAILGVVSSSPSHIGNNITE DPELQPILAGLSLSMYLVTVLR NLLIILA VSSDPHLHTPMCFFLS NLCWADIGFTLATVPKMIVDM QSHTRVISYEGCLTRISFLVLFA CIEDMLLTVMAYDCFVAICRPL HYPVIVNPHLCVFLLVYFFLSL LDSQLHSWIVLQFTIKNVEISN FVCDPSQLKLACSDSVINSIFM YFHSTMFGFLPISGILLSYYKIVP SILRISSSDGKYKAFSTCGSHLA
5831	36199	B	5877	1	1830	
5832	36200	C	5878	109	245	
5833	36201	B	5879	1	801	
5834	36202	B	5880	171	288	
5835	36203	B	5881	49	502	
5836	36204	B	5882	1	639	
5837	36205	A	5883	1	821	MSGQFDLLWTPEEDNSDESD AEGEHGDGAEEEAPPPVPRPGP KPAGLGRRPCPYEQAQGGDGP EEQWMSFCWDIPRKSGAPRERI TLRRHLED CGCKVSKKKAQICR QQKDPQEESPAQFYERLCEAYG MYTPFDPDSPENQRMIMHALV RQSAEDMRRKLQKQAGLAGM NPSQLLERASQVFVNDAV/TP* GKQQREWRRG*YDSQYRRGG TQPCDIVPNIRRRER*YHSQYRR RARPPGPH*SERGALRPGSLPRQ AA*RVPSGPADGQ
5838	36206	A	5884	1	1860	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5839	36207	A	5885	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTI LQG YSNQNSMPGPTPQIPSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRJPAPEAIPWYFQP QPATQLGSPVPDPSSAMM/SR RAHRSRGPDROGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRLNLLIS
5840	36208	B	5886	1	2379	
5841	36209	B	5887	1	6741	
5842	36210	B	5888	165	928	
5843	36211	A	5889	56	2028	
5844	36212	B	5890	1335	3804	
5845	36213	A	5891	365	1573	
5846	36214	A	5892	1	1491	
5847	36215	A	5893	25	458	
5848	36216	A	5894	1	1194	MGGNAADKFRAGVELALQSG NKVCVCSPTTISGDAVAPRSV LPGCRHIPGEISQHSWCWAGRS LSSRKRGSLFRRMGFIKVVKNK AYFKRYQVKFRRR\RKGKT\DY YARKRLVIQDKNKYNTPKY\R MIV\RVNTNRDINCQMLYA/RRIE GDMIVCAAYCTPNLPKIWV*RV GLTNYAAAY\CTGLLL\ARRLL NRFGMDKIYEGQV\ELTGDEYN VESIDGQPGAFTCYLDAGLAR\ TTTGKNKVFGAPEGKLWMGGLS IPHSTK\RFPQ\YDSEISKEFNA\E VTSGKHIMGPKCLQNYMRYL ME\ED\EDAYKK\QFS\QYIK\NS VT\PDMM\EEMYK\KAHAAIRE ESSSMEKKAQGKKFKKKRWNR PKMSLAQKKDRVAQKKASFL QSSRSGLLES LTPAIFP
5849	36217	A	5895	1	1191	
5850	36218	A	5896	21	159	PRSSVRPAGGFSSTCPPSWAAS RSCTTSHGCGHQ* CAGTGTQTR L
5851	36219	A	5897	1	1062	
5852	36220	A	5898	1	246	
5853	36221	A	5899	1	642	
5854	36222	A	5900	2	648	
5855	36223	A	5901	1	555	
5856	36224	B	5902	151	513	

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5857	36225	A	5903	1	2915	VSLAFCQPLSLSLSPLLPLASSL APERTHLPGPGSLLSPPSFPAR PREPRGCVTAAPPDKMDTAE DICRVCRSEGTPEKPLYHPCVC TGSIKFIHQECLVQWLKHSRKE YCELCKHRFAFTPIYSPDMPSRL PIQDIFAGLVTSIGTAIRYWFHY TLVAFARWEVVLLPACRIYKCL FLGSVSSLLTLPDMLSRKNLL ADCLQGCFVVTCTLCAFISLV WLREQIVHGGAPIWLEHAAPPF NAAGHHQNEA
5858	36226	A	5904	3	907	
5859	36227	B	5905	102	406	
5860	36228	B	5906	1	5241	
5861	36229	A	5907	1	519	
5862	36230	A	5908	1	3067	TRDAAMAEAALEAVRSELREF PAAARELCVPLAVPYLDKPPTP LHFYRDWVCNRPICIRNALQH WPALQKWSLPYFRATVGSTEV SVAVTPDGYADAVRGDRFMM PAERRPLSFVLDVLEGRAQHP GVLYVQKQCSNLPSELPQLLPD LESHVPWASEALGKMPDAVNF WLGEAAAVTSLHKDHYENLYC VVSGEKHFLFHPPSDRPFIPYEL YTPATYQLTEEGTFKVVDDEA MEKAEVSRTCCLTVRVLQA
5863	36231	A	5909	1	429	
5864	36232	A	5910	1	690	
5865	36233	A	5911	1	376	
5866	36234	A	5912	1	471	
5867	36235	A	5913	1	606	
5868	36236	A	5914	3	2756	SPGGRTPAARDSIVREVIQNSKE VLSLLQEKNPAFKPVLAIQAG DDNLMQEINQNLAEEAGLNITH ICLPDSSEAEIIDEILKINEDTRV HGLALQISENLFSENKVLNALKP EKDVDGVTIDINLGKLVGRDAH ECFVSPVAKAVIELLEKSGVNL DGKKILVVGAGHSLEAALQCLF QRKGSMTMSIQWKTRQLQSKL HEADIVVLGSPKPEEIPLTWQP GTTVLNCSHDFLSGKVGCGSPR IHFGGLIEED
5869	36237	A	5915	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG

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5870	36238	A	5916	1	334	
5871	36239	A	5917	88	870	MADVRLVAVKRVIDYAVKIR VKPDRGTGVVTDGVKHSMPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIARTALAMGAID RGIHVE\PPAEAERF/GVPLQV ARVLGQAWQRRRLDLVLLGK QAI\ACTDCNQITGQMTAGFLD WPQGTFFASQVTLEGDKLKVER EIDGGLETLRKLPAVVTTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
5872	36240	A	5918	1	774	
5873	36241	A	5919	1	1557	
5874	36242	A	5920	1	759	
5875	36243	A	5921	305	638	
5876	36244	A	5922	364	540	
5877	36245	A	5923	9	111	
5878	36246	A	5924	1	594	
5879	36247	A	5925	169	594	
5880	36248	A	5926	37	936	
5881	36249	B	5927	91	2043	

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5882	36250	A	5928	1	2298	MSRKGPRAEVCADCSAPDPGW ASISRGVLVCDECCSVHRSLSGR HISIVKHLRHSAPPTLLQMVH TLASNGANSIWEHSLLDPAQVQ SGRRKANPQDKVHPIKSEFIRA KYQMLAFVHKLSCRDADDGVT AKDLASKAN*HSSVR\TGKPKW TCLRLLS\LGAIQANFFHPEKGT TPLHVAAGAGQTLQAE\LVVY GADPGSPDVNGRTPIDYARQA GHHELAERLVECYE\TERLA FYLCGRKPDHKNHGYIIPQMAD SLDLSELAKA\KKLQALSRL FEELAMDVYDEVDRRENDV WLATQNHSTLVTERS\VPFLPV NPEYSATRNQGRQKLARFNAR EFATLIIDILSEAKRRQQGKSLSS PTDNLELSLRSQSDLDQHDYD SVASDETDQEPLRSTGATRSN RARSMDSSDLSDGAVTLQEYL ELKKALATSEAKVQQLMKVNS SLSDELRLRLQREIHKLQAENLQ LRQPPGPVPTPPLPSERAHTPM APGGSTHRRDRQAFSMYEPGS ALKPFGGPPGDEL\TTRLQPFHS TELEDDAIYSVHV\PAGLYRIRK GVSASA\VPFTPSSPLLSCSQEGS RHTSKLSRHGSGADSDYENTQS GDPLLGLEGRFLELGKEEDFH PELESLDGDLDPGLPSTEDVILK TEQVTKNIQELLRAAQEFKHDS FVPCSEKIH\LA\VT\EMASLFPKRP
5883	36251	A	5929	1	924	
5884	36252	A	5930	214	387	RRAFHPTPVTSARSTLHSFGQL RLPHSM*SGGTLLISMMQANQS LSLEFSKWTSFPLD
5885	36253	A	5931	1	1639	
5886	36254	A	5932	1	1098	
5887	36255	A	5933	1	546	NSSQVLQF*YLVWNEAPFRLLT MPQYPQINITADQLWGSVAVL V*MH\NGLPGLCI*AWKTTSG GEQYPSSSAIKQGPKEPYADFA RLQESLKKVIADLAAQDIVLWL LAFDNANPECQAALRPIRGKAH LV\DYTKVCDGIRDKLHKATLL AQAMAGLRMGKGNTPFPGACF NCGKHGH

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5888	36256	A	5934	1	648	MGQVWGLVHFTLEVHTGDEE EQEYSEVTEDEVTEHVYLP KVAKEEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLNVTVSSQMIPTDGDPLT RACLTQAFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\IT*CGEQYPSF
5889	36257	A	5935	120	254	
5890	36258	C	5936	366	479	
5891	36259	A	5937	1	933	
5892	36260	A	5938	1	840	MGKVVGLVHSTLELFHTDVEE EGEYNEVTEEVTKHVYLP KAAKEGEVHPYHSAPPHYFE ENDPPDLSFLEDGTGTPRLAAAA TTKANA\KQPLLLSPSMHR/PLP TRPLLAG\QATALPQGV*PLIAP PTRPHLEHCSTQ*RPQAPTLGE ITPVTVPQAPLHPRAVQPW/HST PTRSWLQAVMPGIAPPSRSPPW AVQLRILTYLGCLSTTPAAVQS LSQPPASVRQARVPQAPASSLC QEKPPSPPPVAPHGAAAAARPP SYHSSCASVAVVAANVLIG
5893	36261	A	5939	1	134	MGQVW*KSQSPKA*EPGVSCP RAGRREASVPRWYSS
5894	36262	A	5940	1	1158	
5895	36263	A	5941	1	673	MGIALGSPTTGPKAMKQNL SIGPAGILLPQPVMTPGCPAA APPVAPRCGYVLSEDAWGNLQ GLCTGLSCGQPVAPWATDSG GAQDPVALLPPFPSRGLLGP SCMQRSQVVKGGRQSEISSQ NKKVIADLA AQDIVLQLLAF DNANPDCQAA LRPIRGKAHL VDFIKACDVIGGI PNLLLHPR GLRAITIAVFGKQ\IR TSGS NPLRSTFLSRSRISKNCSA EV
5896	36264	A	5942	1	1182	

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5897	36265	A	5943	1056	2128	TQPPTWGQIKKLSQMVEENLR KAGQLVTMNNLMVAMIVVITT TEEQEYSEVTEEVTEQVYLP AKVAKEGEVHPYPSAPPHYFFE EKEWPDPPDLSFLEDTRQKVVA PVTVRAAPRATVLSSIQAGIQQ AR*EGDLEAWQFPVRIHPPDQQ GNIIVTFEPFPLKLFKEFKQAVN QYGPSPFVMGLLKNVAVSSW MIPTDWDALTRACLTPAQFLQF KTCAMKQGPPEPYVDFIARLQE SLKKMIADSAAQEIVLQLLAFD NAHPDCQAALRPIRGKAHLVD YVKACDGIGEYTPSTYEKKVN CKTASCRSFRYPPEGIVITGDD SSMRVVVPEDLPVGQDVEVED RDIDDPDPV
5898	36266	A	5944	1	300	
5899	36267	A	5945	1	373	
5900	36268	A	5946	1	2976	
5901	36269	A	5947	287	544	
5902	36270	A	5948	831	4555	
5903	36271	C	5949	108	434	
5904	36272	C	5950	145	402	
5905	36273	A	5951	3	1104	GSRPGGHTLQSHRGRHAQGLR SPLLAPVCLGCGTWGQRRFLW SLKI*RLLCWF/CRRLQINCKNK PAIPRGPT/GPSEKSGLLLQDQG DTTNTTEENSKSLENIFGRVIKE NFQSLVRDLDIQYKKHKEHPG NSSQKDHHLGLTSSGYPKLRQR KES*ELSDRSTRKISQS/YNLYTP NTGAPRFIKQLLTDLRNEIDSNT IIVGYFSTPLTALDRSSRQKVND ETVDLNYTLEQMDLTEIYRTFH PTTTEYTFYSTVHGTFSKIDHMI CHKMSLNEFKKTEIISSTLSDHS GIKLEINSKMNLQNHANTWKL NNLLLNEHWVKNEIKMEIEKFF KLNDSDTTYQNLWDMAKAV LRGKFIALNTYIKKMM
5906	36274	B	5952	1	2367	
5907	36275	A	5953	21	132	WREGARQCQEDPAEFLSD*DW ADPGPPHNAPGQNWH
5908	36276	A	5954	1	1461	

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5909	36277	A	5955	31	802	SAWWNSRELLDPQSRSRSGFCF *EYPPTSGTEQESVSGNRALCSS LRMNGDQNSDVYAQEKQDFV QHFSQIVRVLTEDEMGHPEIGD AIARLKEVLEYNAIGGKYNRGL TVVVAFRELVPRKQDADSLQ RAWTVGWCVELLQAFFLVAD DIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLKLY CREQPYLNLIELFLQSSYQIEI GADPGPPHSPPRAMWILSDSLK RGTNLLSSTRQLSTPSTFL
5910	36278	A	5956	1	532	RLNEAEQKYKDIQDKLQIIEET NARAPECMALKADVVAKKRA YNEAEVLYNRSLNEYKALKKD DEQLCKRIEELKK/RVLTN/RLE PERLERQKKISWLKERVKAQFN QENSVNQEIEQFQQALEKDKEE HGKIKREKLDVKHALSYNQRL LKEKDSKTDRLKRFGNVPAL LEAIDD
5911	36279	A	5957	121	475	
5912	36280	A	5958	131	2891	
5913	36281	A	5959	131	3101	
5914	36282	A	5960	44	292	CQDYRWLLASSVLCWLY*KTQ QSDTEDLLCSAPTGPNNPEEDD GKS*PEKCRQMT*KKWSINCKC FFASSHNTTLSIGLFLR
5915	36283	B	5961	26	239	
5916	36284	A	5962	131	3121	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSQSAEVLGELVLDGTA PSAHHIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTSTIIT TTVITTEQAP
5917	36285	A	5963	1	1185	
5918	36286	A	5964	495	636	PSVVLDINVSFNHWSAIFLTME\ PFCHRVRS HAMESR*GSVLP*N KPQ
5919	36287	A	5965	2	376	

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5920	36288	A	5966	3	688	GTSAGDGCPHPHTVLWPPDIMP PKKDVPVKKPAGPSISKPAAKP AAAGAPPAKTKAEPVPQAPQ KTQEPVDLSKVVEFNKDQLE EFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLG NPKSDEMNVKVLDFEHFLPML QTVAKNKDQGTIEDYVEGLRV FDKEGNGTVMGAEIRHVLVTL GEKMTSEEVEMLVAGHEDSNG CINYEELVRMVLNG
5921	36289	A	5967	54	540	AVYMCDLTENQTADLIPSTNEF KEAFQLFDRTDGKILYSQCG DVMRALGQNPTNAEVLKVLGN PKSDEMNVKVLDFEHFLPMLQ TVAKNKDQGTIEDYVEGLRVF DKEGNGTVMGAEIRHVLVTLG EKMTEEDVHMLVAGHEDSNG CINYEAFVRHILSG
5922	36290	A	5968	1	405	
5923	36291	A	5969	93	506	
5924	36292	B	5970	43	615	
5925	36293	A	5971	2	598	TRTSLHAALFSWDPVGTSLTFI SHLEVKKGMLVGIVGKVGCGK SSLLAAIAGELHRWEQVQCGG HTLH*APEQMLRGHVAVRGLS KGFLATQEPWIQFATIRDNILF GKTFDAQLYKEVLEACALNDD LSILPAGDQTEVGEKGVTLSSG QRARIALARAVYQEKELYLLD DPLAAVDADVANPPACTGCNP
5926	36294	B	5972	137	371	
5927	36295	A	5973	1	1398	
5928	36296	A	5974	1	915	
5929	36297	A	5975	40	564	
5930	36298	A	5976	62	280	
5931	36299	A	5977	17	744	
5932	36300	A	5978	1	537	
5933	36301	A	5979	242	576	AANSLYKGSNSAALILVGP*IS CLTHPVYMK*APS*TICLLYSM VILKALFFPQNINFILPVKSRHS
5934	36302	A	5980	924	3473	
5935	36303	A	5981	1	604	
5936	36304	A	5982	288	732	RNCIANYDFLILPTSF*WCSFFV LLFLFLSLSSLKLHSDLDKGE GTAKYTLSGDGAGPVFTIDETT GD\IHAIRSLDRECKPFYTLRA Q\AVDIETRKPLEPESEFIKVVQ DI\NDNEPKFWGWDLMVATGP QK\WSPVG*VGQIKIL
5937	36305	A	5983	1	1510	

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5938	36306	A	5984	1	603	
5939	36307	A	5985	250	505	GFSPTWQ*MNTHPSLMCFSPSR TTGSAAAN*RGQKSGVPFWS* SHVKGKDQIPVPICPCTTAPVT MESTCIC*PTHVSCKTLMV
5940	36308	A	5986	3	131	RVLVPDIRGAI*AVPKSPSIKSYP ALPRALFLLPPYPDDLGI
5941	36309	A	5987	1	913	
5942	36310	A	5988	5	177	
5943	36311	A	5989	3	383	
5944	36312	A	5990	1	1323	
5945	36313	A	5991	342	594	
5946	36314	A	5992	1	321	
5947	36315	A	5993	3	601	
5948	36316	A	5994	1	1023	
5949	36317	A	5995	1	606	
5950	36318	A	5996	1	1536	
5951	36319	A	5997	2	1394	
5952	36320	A	5998	371	1045	
5953	36321	A	5999	3	360	
5954	36322	A	6000	1	636	
5955	36323	C	6001	1	861	
5956	36324	A	6002	1	711	

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5957	36325	A	6003	18	2446	AGSPPRADAAAGLWERGHLLS AAVAAMGKRDRADRDKKKSR KRHYEDEDDEEDAPGNDPQE AVPSAAGKQVDESGTKVDEYG AKDYRLQMPLKDDHTSRPLWV APDGHIFLEAFSPVYKYAQDFL VAIAEPVCRPTHVHEYKLTAYS LYAAVSVGLQTS DITEYLRKLS KTGVDPDGIMQFIKLCTVSYGKV KLV LKHNRV FVESCHPDV IQHL LQDPVIRECRLRNSEGEATELIT ETFTSKSAISKTAESSGGPSTSR VTDPQGKSDIPMDLFD FYEQM DKDEEEEEETQTVSFEVKQEMI EELQKRCHLEYPLLA EYDFRN DSVNP DINIDLKPTAVLRPYQE KSLR\KMFGNGRARS GIVLPC GAGKSLVGVTAACTVRKRCLV LGNSAVSVEQWKAQFKMWSTI DDSQICRFTSDAKDKPIGCSVAI STYSMLGHTTKRSWEAERVME WLKTQEWGLMILDEVHTIPAK MFRRVLTIVQAHCKLGLTATLV REDDKIVDLNFLIGPKLYEANW MELQNGYIAKVQCAEVWCP MSPEFYREYVAIKTKKRILLYT MNP NKFRACQFLIKFHERRNDK IIVFADNVFALKEYAIRLNKPYI YGPTSQGERMQILQNFKHNPKI NTIFISKVGDTSFDLPEANVLIQI SSHGGSRRQEAQRLGRVLR AK KGMVAEEYN AFFYSLVSQDTQ
5958	36326	A	6004	1	933	
5959	36327	A	6005	1	879	
5960	36328	A	6006	1	727	
5961	36329	A	6007	1	1509	
5962	36330	A	6008	1	1698	

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5963	36331	A	6009	2465	2751	VPTSSAPMPWPSRQWERSRT MTVISSSQLMALGP*RTAQVLA AAPA*LGASSAARGIDPQAGKT QK\ETDIATMQLCANKLDKKDF FGKSDPFLVFYRSNEDGTFITICH KTEVVKNTLNPVWQPFSPVRA LCNGDYDRTVKIDVYDWRD GSHDFIGEFTTSYRELSKAQNQ FTVYEVLPNPKCKKKKYVNS GTVTLLSFSVDSEFTFVDYIKGG TQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLS AYAMALKAVGEIIQDYDSDKL FPAYGFGAKLPPEGRISHQFPLN NNDEDPNCAGIEGVLESYFQSL RTVQLYGPTYFAPVINQVASLP
5964	36332	A	6010	1	1059	
5965	36333	A	6011	255	405	
5966	36334	A	6012	251	1199	
5967	36335	A	6013	1	1791	
5968	36336	A	6014	335	984	
5969	36337	A	6015	1	127	LPLRLSYEIIYLYFTF*KPEHNKS HFLESHLIRNTRSA LNTRK
5970	36338	A	6016	1	774	

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5971	36339	A	6017	186	2699	PRGAKPAVPAGPERPGPGPGPC SPRPMVLPTCPMAEFALPRHSA VMERLRRRIELCRRHHSTCEAR YEA VSPERLELERQHTFALHQR CIQAKAKRAGKHRQPPAATAP APAAPAPRLDAADGPEHGRPA THLHDTVKNLDSATSPQNGD QQNGYGDLPFGHKTRREAPL GVAISSNGLPPASPLGQSDKPSG ADALQSSGKHSGLDLSLNKKR LADSSLHLNGGSNPSESFPLSLN KELKQEPVEDLPCMITGTGVSIS QSNLMPDLNLNEQEWKELIEEL NRSVPDEDMKDLFNEDFEEKK DPSSGSATQTPLAQDINIKTEF SPA AFEQEQLGSPQVRAGSAGQ TFLGPSSAPVSTDSPSLGGSQTL FHTSGQPRADNPSPNLMPASAQ AQNAQRALAGVVLPSQGPGBA SELSSAHQLQQIAAKQKREQML QNPQQATPAPAGQMSTWQQT GPSHSSLDVPYPMEKPASPSY KQDFTNSKL/PHDA*CE*EFPSA RRPLPPAQCEPAESPATE*LES ELRE/YTRGLCWIRQYKTPFSL QSGLWARQPGVWPEQASPDGL SSPAAVPYKSRAELPVSDEAKA RKYAFPITGSTWPGAEPFQCPC ASPGYQCWDPAACRVRGQLPQ QLPLSQQPATGRCNEAASVAFG PTETKGAAAKAFTATAVPSEAT APSRGTGEATVSAPSDPPTTPVP
5972	36340	A	6018	1	1062	
5973	36341	A	6019	3	566	ASRPPVTLRLVVPASQCGSLIG KGGCKIKEIRESTGAQVQVAGD MLPNSTERAITIAGIPQSIIECVK QICVVMLESPPKGV TIPYRKPSP SSPVIFAGGQAYTIQGQY AIPQP DLTKLHQLAMQQCHFPMTHTG \NTGFQWALE\SFPEV\KGYW AGLDASAQTTSHELTIPNDLIGC IIGRQGAKIN
5974	36342	A	6020	2	531	TLRSSWQVVRTGTAQAATVRG FPPHPPRPASASTLTLEGPPEAY TIQGQY AIPQDLTKLHQLAM QQSHFPMH/GDGIHSDYSAGLD ASA\QTTSHELTISKRI LIGLA*S GRSRAPKINGGSRQMSG AQIKI ANPVI EGSTD*GRFTITGSAASIS LAQYLINVRLSSETGGMGSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 9,540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5975	36343	A	6021	181	1369	PLKVQLPRTLMDMDTGVIEGGL NVTLTIRLLMHGKEVGSII\GKK GESVKKMREESGARINISEGNC PERII\TLAGTH*LPSFKAFAMIN DKLGRRDISSSMITNSTAAQLGP PVTLLKGVAPAS\QCGSLIGKGG CKIKEIRESTGAQVQVAGDMLP N\STEAGHHYLLGIPQSI\NECVK QILRGSCWETLFPSSPPKGV\TIP YRPK\PSSSPV\IFAGGPGQVPA QAATVRAFP\TPR\PCGSTLTWE GPPLEAYTIQGQYAI\PPD\LT LHQL\AMQQSHFPMTHGNTGF SG\IESSFAPEVKGYWAGLADAS AQTTSHELT\IPNGFDWAGIIGA FKGAKIN\EIRQMSGAI\KIANP VE\GSTRQVTITGSAASISLAQ YLINVRLSSETG\GMGNN
5976	36344	A	6022	1	690	
5977	36345	A	6023	1	399	
5978	36346	A	6024	3	397	
5979	36347	A	6025	3	249	
5980	36348	A	6026	177	477	
5981	36349	A	6027	49	451	
5982	36350	A	6028	1	1305	
5983	36351	A	6029	1	568	
5984	36352	A	6030	207	1053	PLTFGPARWRET\PPSLYKEFSG LFGSFFLSSAWGAHNLRALFLL LPSSRIQ\TPWVFGDLKSPAGL QVLNDYLADKSYIEGYVPSQA\ DVAVFEAVSSPPPADLCHALR WYNHIKSYEK\EKASLPGVKKA LGKYG\PADVEDTTGSGATDSK DDDDIDLFGSDDEE\ESEKPKRL REERLAQYESKKAKKPG\LV KSSILLLVK\PD\DETDMAKLE ECVRSIQADGLVWGSSKLVPV GYGIKKLQIQCVVEDDKVGTD MLEEQITAFEDYVQSM\DAAF
5985	36353	A	6031	1	211	
5986	36354	A	6032	27	241	EVFGSWWQVPHEWLGSVLVV MSEFLFH*LM*ELVLKRV*CLS HLSLAPFLAM*YACSSSPSTMI VSFFFF
5987	36355	A	6033	1	588	

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5988	36356	A	6034	279	1333	LIFCGCWL FASLTVM EAAHFFE GTEKLL E V WFSRQQPDANQGS GDLRTIPRSEWDILLKDVQCSII SVTKTDKQEAYVLSESSMFVSK RRFILKTCGTTLLLKALVPLLKL ARDYSGFDSIQSFFYSRKNFMK PSHQGYPHRNFEIEFLNAIFP NGAGYCMGRMNSDCWYLYTL DFPEER\VISQPDQTLEILMSELD PAVMDQF*HEDG\VTAKDVTRE SGIRD LIPGSVIDATM\ENPCGYS \MNGMKSDGTYWT\IHITPEPEF SYVSFETNLSQTSYDDLIRKVV EVFKPGKFVTTLFVNQSSKCR RLGLPQK\IEGFKRLDCQEGWF KDSNFFFTSFAKKQQQQQS
5989	36357	A	6035	1	687	
5990	36358	A	6036	1	894	
5991	36359	B	6037	1	1458	
5992	36360	A	6038	1	1062	
5993	36361	A	6039	1	1218	
5994	36362	A	6040	277	3508	RSGRIAWAQEMDAAGRGCHLL PLPAARGPARAPAAAAAAS PPGPCSGAACAPSAAAGAGAM NPSSSAGEEKGATGGSSSSGSG AGSCCLGAEGGADPRGAGSAA AAGAAALDEPAAAGQKEKDEA LEEKLRNLTRKQVSYRKAISR AGLQHLAPAHPLSLPVANGPA KEPRATLDWSENAVNGEHLWL ETNVSG\DLCYLGEENCQVRFA KSALRRKCAVCKIVV/HTTACIE ELEKINFRCKPTFREG\GS
5995	36363	A	6041	45	155	
5996	36364	A	6042	1	979	
5997	36365	A	6043	3	1042	
5998	36366	A	6044	2	401	
5999	36367	A	6045	1	5772	
6000	36368	A	6046	16	5678	VTSGRLLFYFRSMGPGCDLLLR TAATITAAAIMSDTDSDEDSAG GGPFSLAGFLFGNINGAGQLEG ESVLDDECKKHLA GLGALGLG SLITELTANEELTGTGDALVND EGWVRSTEDAVDYS DINEVAE DESRRYQQTMGSLQPLCHSDY DEDDYDADCEDIDCKLMPPPPP PPGPMKKDKDQDSITGEKVDFS SSSDSESEMGPQEATQAESEDG KLTPLAGIMQH DATKLLPSVT ELFPEFRPGKVL RFLR
6001	36369	A	6047	1	354	

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6002	36370	A	6048	1	666	
6003	36371	A	6049	129	456	TYPAVGESSRRPERSRGVPGPD AAAESHFRPGRISNPLHRAGEQ GHARAEGSGVFRPHRGRGLRL LFVQAPDQVDAPVHG*VAPPAP GARDAQTCRSHECPTRPLDEV
6004	36372	A	6050	1	1095	
6005	36373	A	6051	171	619	
6006	36374	A	6052	1	621	
6007	36375	B	6053	1	181	
6008	36376	A	6054	1	905	
6009	36377	A	6055	1	855	
6010	36378	A	6056	2	244	
6011	36379	A	6057	3	829	LTDCLKDVDLIPPFNRMLLEV FGKLYAWTVQNILNVLMDASA KFKELGIQPVPLQTITSENPLGP SLGSIPQARFLMMLSLTLQH SANNLDLLNSGTLALTQTALR LIVLPDVELLI*DHLL*MQTSIV* LPVLALLLAQHRSFGPSCDNVE EDMNASAQGASATVLEATRKE TAPVHLPVSGPELAATMKIGTR VMRGVDWKWGD/QEAEQTER NIHPTTMMFTSTINLLQTLCLPA RVHAEIMQSEATKTLCGLLQIL VESGTTDKTRME
6012	36380	A	6058	133	5421	IFVFGCPGSPRLQMVENRYTES FFTGQNCRNNEKVTLVRIADLE NHNNDGGFWTVIDGKVYDIKD FQTQSLTENSILAQFAGEDPVV ALEAALQFEDTRESMHAFCVG QYLEPDQEGVTIPDLGSLSSPLI DTERNLGLLLGLHASYLAMSTP LSPVEIECAKWVQSSIFSGGLQT SQIHRYNEEKDEDHCSSPGGT PASKSRLCSHRRALGDHSQAFL QAIADNNIQDHNVKDFLCQIER YCRQCHLTPIMF

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6013	36381	A	6059	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAKSQGCSR ARHQAARSMPLQDQHLALAIL LELA VQRGTLSQMLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQ NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCGQYLEVR LYALSDAEDGRGVTL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQEGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIQARFLLMMLSLT LQHSANNLDLLLNSGTALALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGGPPGLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAAQPSAEDS DTEDDSASPNRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP
6014	36382	A	6060	1	7297	
6015	36383	A	6061	32	259	SLRVTPGGRNVSEKKDRKKTG R/PPELERKSHTERLYLEEGSAE PA*VGRRAPESVNDRGGAIQRA QRGQPAPPLPR
6016	36384	A	6062	3	437	
6017	36385	A	6063	1	425	MTELPTLWKPLKNSPMFRVIAR AFCVTFILVSTHQEMLTITSEN LGPSLGSIQARFLLMMLSLT LQHSANNLDLLLNSGTALALTQT ALRLIGGTPVELPAELAAPAFR AAAA/VDKNPRRRGQKVAVAK SGGDRGKKSR

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6018	36386	A	6064	2	14566	RRGGRALVRPETHWEEAGEKM PSEFCLAAQARLDSKWLKTDI QLAFTRDGLCGLWNEMVKDG EIVYTGTESTQNGELPPRKDD VEPSGTTKEDLNDKEKKDEEET PAPIYRAKSILDSWVWGKQPDV NELKECLSVLVKEQQALAVQS ATTTLSALRLKQRLVILERYFIA LNRTVFQENVKVKWKSSGISLP PVDKKSSRPAGKGVGLARVG SRAALSFAFAFLRRWRSGEDA DLCSELLQESLDALRAL
6019	36387	B	6065	75	581	
6020	36388	A	6066	517	5495	ESFFTGGQNCRNNEKVTFRVRIAD LENHNNDGGFWTVIDGKVYDI KDFQTQSLTENSILAQFAGEDP VVALEAALQFEDTRESMHAF VGQYLEPDQEGVTIPDLGSLSSP LIDTERNLGLLLGLHASYLAMS TPLSPVEIECAKWLQSSIFSGGL QTSQIHYSYEEKDEDHCSSPG GTPASKSRLCSHRRALGDHSQA FLQAIADNNIQDHNVKDFLCQI ERYCRQCHLTPIMFPPEHPVEE VGRLLLCCLLKH
6021	36389	A	6067	1	1851	
6022	36390	A	6068	53	423	YHLTLIHGTVKVSATRPVGHCS GKLPSWVPISLQCTPSSPECRSV *RQL*HGHMHELLYIITKADSVI TASCLISRSEWWDGGTVSLV QRFVDYGSSQCQRPHRTGCASS SAPQRASSVAPG
6023	36391	A	6069	1	49	EWSGTRTWWRPWSCRT*CRT
6024	36392	A	6070	1	726	
6025	36393	A	6071	368	485	
6026	36394	A	6073	1	414	
6027	36395	A	6074	3	535	RRREFPAKERESASMSSPEE*P/ DMAKGAPPSQPPNSVPAD/CS RSVRLSSSNFEESLRPTEDDEGQ EGQDSMSRAKANWLRANFKV RMQLQEARGEKESKSLWFKG GPGGGLIIDSMPDIRKRKPIPLV SDLAMSLVQSRKAITSALASS TLNNEELKNHVYKKTQLALIYP ISC
6028	36396	A	6075	1	222	
6029	36397	A	6076	2	284	NGIPDFSNTTLLRGLQMPGARG PCCGSQRHINLLMTGVFLVK MKA/NEFFFLDSETRLCIAPEG WREQPQKTSMTFTLFLRIKFF VSHYGLL

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6030	36398	A	6077	91	749	
6031	36399	C	6078	1	380	
6032	36400	A	6079	1	877	MPRPDLAPALLVAVLVLLYLL VSAAAPAPSSDSTPENVCVET TTNFIWELSSPHNTSAVLLVVF HKGPSPKFEVKLKKNANGLGFS FVQMEKESCSHLKSDLVRIKRL FPGHPAEENGAIAAGDIILAVN GSPRKASSSRCRGSWAMQLSV QAGPSFASYYPAAVEVLHLLRG APQEVTLLLCRPPPGALPELEQE WQGQKYKCAWAIVNEAEVEE VVEVAGTVEFFGDQGA*CHHP ACSGKPLGWHGGLSRKCPRLFF RGATRVGAQGLKEVKQQSFR SNMMWLGLRL
6033	36401	A	6080	1	1683	
6034	36402	B	6081	66	1214	
6035	36403	A	6082	1	5694	
6036	36404	A	6083	3	483	SSLTSSMEDPAAPGTGGPPANG NGN\GGGKKGQAAPKGREAFR SQRRESEGSVDCPTLEFEYGDA DGHAAELSELYSYTENLEFTNN RRCFEEDFKTQVQGKEWLELE EDAQKAYIMGLLDRLVVVSRE RRLKAARAVLYLAQGTGECED SEVDVLHWSRY
6037	36405	A	6084	1	2646	
6038	36406	A	6085	115	1289	FSPLEPRLCSLGGWGALQAGEP CQPSRAGCGREGATMGCTLSA EERAALERSKAIEKNLKEDGIS AAKDVKLLLLGAGESGKSTIVK QMKIIHEDGFGSDVKQYKPV VYSNTIQSLAAIVRAMDTLGIE YGDKERKADAKMVCDVVSRM EDTEPFSAELLSAMMRLWGDS GIQECFNRSREYQLNDSAKYYL DSLDRIGAADYQPTAQDILRTR VKTTGIVETHFTFKNLHFRLFD VGGQRSEKRWIHC FEDVTAIL FCVALSGYDQVLHEDETTNRM HESLMLFDSICNNKFIDTSIILF LNKKDLFGEKIKKSPLTICFPEY TGPNTYEDAAA YIQAQFESKNR SPNKEIYCHMTCATDTNNIQVV FDAVTDIIIANNLRGCGLY
6039	36407	A	6086	1	1053	

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6040	36408	A	6087	2	377	IYDGFDFGFAKGQIKEIGWTDVG GWTGQGGGSILGTRVLPKG/Y MEEIATQMRTHSINALLIIGGFE AYLGLLELSVFVTLKLFYQHFM HVLLTLIPNRRVPICPTSPSACC LWSVSHAFRCAYEQN
6041	36409	A	6088	1	591	
6042	36410	A	6089	1	2391	PGRAAPLGLLAMDADDSRAPK GSLRKFLHLSGAGKAIGVLTS GGDAQGMNAAVRAVVRMGIY VGAKVYFIYEGYQGMVDGGSN IAEADWESVSSILQVGGTIIGSA RCQAFRTREGRLKAACNLLQR GITNLCVIGGDGSLTGANLFRK EWSGLLEELARNGQIDKEAVQ KYAYLNVVGMVGSIDNDFCGT DMTIGTDSALHRIIEVVDAIMTT AQSHQRTFVLEVMGRHCGYLA LVSALACGADWVFLPESPPEG WEEQMCVKLSENRAKRLNII IVAEGAIDTQNKPIITSEKIKELV VTQLGYDTRVTILGHVQRGGTP SAFDRILASRMGVEAVIALLEA TPDTPACVVSLNGNHAVRLPL MECVQMTQDVQKAMDERRFQ DAVRLRGRSFAGNLNTYKRLAI KLPDDQIPKTN CNVAVINVGAP AAGMNAAVRSAVRVGIADGH RMLAIYDGFDFGFAKGQIKEIGW TDVGGWTGQGGGSILGTRVLP GKYLEEATQMRTHSINALLIIG GFVAYLGLLELSAAREKHEEFC VPMVMVPATVSNNVPGSDFSIG ADTALNTITDTCRIKQSASGT KRRVFIIETMGGYCGYLANMG GLAAGADAAYIFEFPDIRDLQ SNVEHLTEKMKTTIQRGLVLRN ESCSENYTTDFIYQLYSEEGKG VFDCRKNVLGHMQGGGAPSPF
6043	36411	A	6090	1	459	

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6044	36412	A	6091	1930	5781	RAKSPANIIMTGSNSHITILT VNGLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6045	36413	A	6092	1	3654	
6046	36414	A	6093	1	5127	
6047	36415	A	6094	1	3663	
6048	36416	A	6095	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQT HSKASRRQEITKIR AELKEIETQ
6049	36417	A	6096	1	5073	
6050	36418	A	6097	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQT HSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKR EKNQIDTIKNDK
6051	36419	A	6098	1	3235	

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6052	36420	A	6099	1	3070	MATLIPLLFHKHPHLTQRYQFN VRGGCPTSTSAIATLDPRTAVFP LMSVFQTSAPWPFWGFTHTQTP VPQPLKVKIHSSADTAADIQAN RVWSGPPANSKRPAEEGKLT NRKDIHTKNPSVRHHHQRPKV DKTTKTGKKQRRKTGNSKKQS ACPPPKERSSTATEQSWTEND FDKLREGFRRSNYSKLQDEIQT KGKEVENLEKSLDECITRITNTE KGLKKLENYVKNEETSGANAI NWKKGINKIDRPLARL
6053	36421	A	6100	1	3297	
6054	36422	A	6101	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPIITGAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRJNIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPTYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKKSGNN
6055	36423	A	6102	1	3417	

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6056	36424	A	6103	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLRLNCIDDLKPPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYP IQDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGP TREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTPEDDEE EKLVAKVRLDLK
6057	36425	A	6104	1	4371	
6058	36426	A	6105	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLRLARIKKKREKNQI DAIKNDKGDITTDPTIEQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKL FQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFI PGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKA FDKIQQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPKN ILITL QLLLVLP ELSTLIPLWLPALAGQ
6059	36427	A	6106	1	4449	

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6060	36428	A	6107	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLL NDYWVHNEMNAEIKMFFETNE NKDTTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ LELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
6061	36429	A	6108	1	3297	
6062	36430	B	6109	112	3300	
6063	36431	A	6110	3	3316	
6064	36432	A	6111	1	3457	
6065	36433	A	6112	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLELEKQEQRHSKPSRRQE ITKMRAELKEIETQ
6066	36434	B	6113	1	4753	
6067	36435	B	6114	1	3384	
6068	36436	A	6115	1	3345	
6069	36437	A	6116	1	3780	
6070	36438	A	6117	1	3720	
6071	36439	A	6118	1	3894	
6072	36440	A	6119	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEIETQ
6073	36441	A	6120	1	3780	
6074	36442	A	6121	1	3852	
6075	36443	A	6122	1	3345	
6076	36444	B	6123	1	6136	
6077	36445	B	6124	1	3924	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6078	36446	B	6125	295	4185	
6079	36447	A	6126	1	405	
6080	36448	A	6127	1	1059	
6081	36449	A	6128	2	518	EKATCDENDSVSNIA TEIKEGQ QSVVHVSPQKQSAWKVIFKKKV SLLNIATRITGGGKSGTVSSQKQ PPSKATSDKTDSALNIA TEIKDG LQCGTVSSQKQPALKATTDEED SVSNIA TEIKDGEKSGTVSSQKQ PALKATTDEKDSVSNIA TEIKD GEKSVTVSSQKQPASK
6082	36450	A	6129	1	843	
6083	36451	A	6130	1	432	
6084	36452	A	6131	2	835	CGSAQAAAAAAAAEEATEKIPAL RP/ASAVGAAGALAVLRDPRA WREAGSKS/PETPFS* CQGA/HG GGQFCPSGTAFPGMKVMR KRKKKGQCLPGICRSLKRRKSP RSPGM/IGYSTLSIPPEMLASYQ SYSSTFHSLEEQQVCMA/G*HR QMPGADKPVRACQRVLAGVW AGFTMRHQSRLY*ECSICGVIFR HRCVAHLLGRAIGAGLFVITPA GERGMCCKAIKLG NARVFPVT TL*NDGQCQACMHAG/TTLEDP GKNYISSPSSSSSSSPSPRVPS
6085	36453	C	6133	278	446	
6086	36454	A	6134	1	1152	
6087	36455	A	6135	1	639	
6088	36456	A	6136	12	1436	
6089	36457	A	6137	367	1056	
6090	36458	A	6139	1	4263	
6091	36459	A	6140	1	1311	
6092	36460	A	6141	1093	1358	MQKKPLTKFNNPSC*KLSIN*V LMGRISK*VTTTATTTT TTTT TTTTTTTTTATTTTTTTTTTTT TTTTTTMGPTLPLIPIGLGS
6093	36461	A	6142	1	699	
6094	36462	A	6143	1	489	

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6095	36463	A	6144	5	916	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQNYTPPGLLGLPDHRF
6096	36464	A	6145	5	756	
6097	36465	A	6146	1	471	
6098	36466	A	6147	184	1097	ALC TPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQDYTPPGLLGLPDHRF
6099	36467	A	6148	3	672	
6100	36468	A	6149	3	398	LRKIKIDLGKFSNPDGYIDVLQ GLRQSFDLTWRDIMLLLDQSLT PNEKSAAKTAAREFGDLWV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYAPIQQA V
6101	36469	A	6150	1	420	

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6102	36470	A	6151	1	878	TLLPPRPGVGS DYPNIPGCPMW GNKDPGEGTLER GKVEDASQR TSRTLKETS GKA EHRKKQDGK CSPQGGK NAL KMYSGE FDPVRV CVPFSLSDLKQLKIDLGRFSDNP DGYIDVLQGLGQSFDLTWRDI MLLLDQTLTPNERNATITAARE FGDLWCLSQVND RMTTEERER FPTGQQAVPSADPH* DTESEHG DWCCRHL L TCVLEGLR KTRKK AVNFSVMSTVTQGKEENPTAFL ERLREALRKHTSLSPDSIEGQLI LKIKFITRSAADIRKQTSKVHLR PGAKLKTPY
6103	36471	A	6152	1	417	
6104	36472	A	6153	1	415	
6105	36473	A	6154	1	234	
6106	36474	A	6155	1	335	TCPIVPG/QEMIIEISKGRSGLGL SIV*GKDTPLNAIVIEVYEEGA AAVDGRLWAGDQILEVNGVDL RNSSHEEAITALMQTPQKVRLV VYRDEAHYRDEENLEIFVDLQ
6107	36475	A	6156	109	4687	
6108	36476	A	6157	109	4991	
6109	36477	A	6158	3	862	
6110	36478	A	6159	1	1857	
6111	36479	A	6160	3	100	
6112	36480	A	6161	1	537	
6113	36481	A	6162	125	1184	
6114	36482	A	6163	875	1506	LSIYLV TQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLAD RDAVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQH SIIKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTDSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6115	36483	A	6164	1	1566	
6116	36484	A	6165	1	1098	
6117	36485	A	6166	1	538	
6118	36486	A	6167	410	625	LTLVPF SFSVVL TPLPKGNTIRY *TGIL*GWNLSWKGT LGFSVTA QPSSGTPRTALGSRTTKPLLVS L LQV

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6119	36487	A	6168	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKNDQT FQGLLDTGSELTLPDGPKRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV//SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTGGSW RMTVDYL
6120	36488	A	6169	203	850	DVEHVGKMRRRWRRRVVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKNDQTFQDLLDTGSELT LPDGPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VV//SPVPECIIGIDILSSWQ/NSH IGSLTVHLSSDPKGCHSEWGPE QEKALQEVQAAVQAALILEPY DPAGPVVLEVSLADRDAVWSL WQAPIGESQQRPLGFWSKALPS
6121	36489	A	6170	1	864	
6122	36490	A	6171	1	205	VPDFPAKPIQGPHFNSRYL/REA VHGEAVHAPFIAGQPLT**ELM SIFPQFQFFLYRRLDSHSGQSWQ I
6123	36491	A	6172	1	3039	
6124	36492	A	6173	1	1364	MIISIDAEKAFDKIQPFMLKTL SKLEETASPSVVAITYTPQPML PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPELIIGIDILSSWQNPFIGSL NGRGYINSLALCHNLIRDLDR FLLPQDITLVHYIDHIMRLDSVK DKWLHLAPPTTKKEAQCLVGL/ FGFWRQHISLWRQPLACYWAL VETEHLTMGHQVTMQPELPIM NWLLSDPSSYKPAPMASWGVP YGQLTEEEKTRAFTDGSARY TETTRKWTAVAIQPLSRTSLKD SNEGKSSHQAKNGITVLAGVI DPDYQDEISL/LTPQWRCHPGSS VWRASSLGISHPP
6125	36493	A	6174	114	1996	

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6126	36494	A	6175	1	475	MGRNQNRKAENSKNWNASSPP KEHNSSPAREQNWREDEFNLT EVGFRRSVITNFSDLKEHVLTH CKEAKILEKRLDKWLTKITSVE KS/CK*PDG/D*KPQYENFMKHT QASIADLIKRRKKRYQ*LKIKLM K*SKKTR*EKKKYKLPSENTTN TSMQIY
6127	36495	A	6176	179	393	NKRGYKQMEEHSMMDKKNQ YYENGHTAQGN*AGEGNKGYS IRKTGSQIVPLCR*HDCISRKPD CLSPKSP
6128	36496	A	6177	1	710	MARELRDECTSFSSQFHQLEER VSVIEDQMNMKQEEKFREKGI KRSEQLQEIWDMERPNLCLI GVPESDGENGIKLEDTLQDIIQK DFPNLGRQANIQEIQRMPQR YSSRRATPRHIIVRFTKEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNRPTGS EIEAIINSLPTKKSPRPGFTAEF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASIIIPKLGRDTTK KENFRPISLMNIDAKILNKILAN QMQQNIKNLIRHDQAGFIPGMQ CWFNIRKSINVIQHINRTKDKN HMIISIDAEKAFYKIQPPFILKTL NKLENKIPRNPTYKCGEPLFK ENYKMLKEIKEDTSKWKNIP WSWIGRJNIVKMAILPKVIYRLS APIKLPMIFFTELEKTTLKFIWN QKRACIAKSILSQKNKAGGIML PDFKLYYKATVTKAAWYWYQ NRDIDQWNRTEPSETIPHIYSHL IFDKPDKNKKWGKDFLFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKLEENL GNTIQDIGMGKDFMCKTPKAM VTKAKIDKWDLIKLSFCTAKE TTVRVNRQPTEWEKIFAIYSSD KRLISRIYKELKL*PCSIV*SQVA *CLQLCSFGLGLTWQCRLFFGSI
6129	36497	A	6178	464	724	IGEVLLDNILQRFVQLGSILPITF RYTNQT*IWSWTLFWLVSY
6130	36498	A	6179	1	2022	
6131	36499	A	6180	1	882	
6132	36500	C	6181	1	1935	
6133	36501	A	6182	1	672	
6134	36502	B	6183	140	2195	
6135	36503	A	6184	26	354	

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6136	36504	A	6185	86	747	SLEDAMSLKDDDSGDHDQNEE NSTQKDGEKEKTERDKNQSSS KRKAVVPGPAEHPLQYNYTFW YSRRTPGRPTSSQSYEQNIQIG TFASIVEQFWRFYSHMVRPGDL TGHSDFHFLKEGIKPMWEDDA NKNGLGKWIIRL\RKGFGRSC\W ENLILAMLGEQFMVGEEICGG CGVCPAFQEDIIS\IWNKTASDQ ATTARIRDTL\RRVL\NLPANTI MEYKN
6137	36505	A	6186	23	127	
6138	36506	A	6187	2	419	
6139	36507	A	6188	1	714	
6140	36508	A	6189	19	373	AVFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFSSSSSSFFFSFLL FFFFKLKELRLVI*PLNPEN*ESC PLFSPVNLDMPT*TFKDKRWKV NWARSTSRQQLLESARTKSWA EREGGTRWRAW
6141	36509	A	6190	227	420	KNFLPNCSAKELFFFFFFFFFLL LLLLLLLYFKF/MI*WFKHLAF PLLAFILSPTAL*RGVFHH
6142	36510	A	6191	400	582	
6143	36511	A	6192	1202	1678	
6144	36512	A	6193	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAACL
6145	36513	A	6194	110	377	QWISRQKPYKPEKRGDQYSTFL *EC*ILVPPLFWLVGFLPRDPLL V*WAYGCP*HFFLHFNLGESNN YVSWGCS
6146	36514	A	6195	1	381	
6147	36515	A	6196	1	759	
6148	36516	A	6197	1	609	
6149	36517	A	6198	2	1178	
6150	36518	B	6199	159	290	
6151	36519	A	6200	716	1001	SMPASTHLILVGSCSWKMVIVL PLVTHFLFTALTVPWNLPWVEL YWNM*TM*LRSMKESLMATIF TLPELKAIVLHEKLQ*LQSTEDL *HGLLGG
6152	36520	A	6201	5772	5971	TANIIMTGSNSHITILTLNVNRL NARIKRHRENCIKSQDPSVCCI *ETHLMCRDITYRLKIKGWSN
6153	36521	A	6202	1	974	
6154	36522	A	6203	1	600	

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6155	36523	A	6204	51	424	MAPKQDPKPKFQEGERVLCFH GPLYEAKRVKVAIKD/ITREI/H SYITVVGIKIGMNGFRRAKYSN TWTPICRNSENFKKPISKFVL*T EY*GEMPVD*FWTWNEQWRSC WLPCLYNDTSDLSAGV
6156	36524	A	6205	1	3827	MQKAIRLNDGHVAPLGLLARK DGTRKGYLSKRSSDNTK WQTK WFALLQNLLFYFESDSSSRPSG LYLLEGVCVCDRAPSPKPALSAK EPLEKQHYFTYNFSSHENQKALE LRTEDAKDCDEWVAIAIAHASY RTLATEHEALMQKYLHLLQIVE TEKTVAKQLRQQIEDGEIEIERL KAEITSLKDNRIQSTQTVAPN DESDIKKIKKVQSFLRGWLCR RKWKTIQDYIRSPHADSMRKR NQVVFSMLEAEAAY
6157	36525	A	6206	1	900	
6158	36526	C	6207	172	501	
6159	36527	A	6208	499	848	KIRVPAAVAGLSPPLGPWSLRS PSQPERCCPWRNSSWWTAPRTS IITAAGVSPARLSSISCTTRGS WVKTPTRARMVIASSNLERP SALSRM*PTSQSMTRKRWWRL WPSTTL
6160	36528	A	6209	3	495	SCAQTFPKLDTFLEHIKSHQEEL SYRCHLCGKDFPSLYDLGVHQ YSHLLPQHSPKKDNA/CLQVF PCERYLRRHLPTHGSGGRFKCQ VCKKFFRREHYLKLHAHIHSGE KPYKCSVCESAFNRKDKLKRH MLIQYDEVQRQGLGMVPGTQKV LNKCFCHNVKKKK
6161	36529	A	6210	667	2142	
6162	36530	A	6211	1	396	
6163	36531	A	6212	213	446	
6164	36532	A	6213	101	580	VAGVGSLPRSMEDDAPVIYGLE FQARA\TPQTAETDAIRFLVG TQSLKYDNQIHIDFDDENNIIN KNVLLHQS/AGEIWHISASPADR GVLTTTCYNRTSDSKVLTCAAV WRMPKELESGSHESPDDSSSTA QTLAELLCHLDNTAHGNMACV VWEPMGDG
6165	36533	A	6214	1	933	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bud	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6166	36534	A	6215	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGIHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG
6167	36535	A	6216	1	408	
6168	36536	A	6217	88	871	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEA\VRLEKKLVKEVIAV\ SCGPAQCQETI\RTALA\MGAI\D RGIHVE\VPPEA\ERF/GVPLQV ARVLGQLAKK\EKVDLVLLGK QAI\ACTDCNQ\TGQMTAGFLD WPQGTFFASQVTLEGDKLKVER EIDGGLETLRLKLPVVTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
6169	36537	A	6218	1	1023	
6170	36538	A	6219	110	842	
6171	36539	A	6220	1	122	
6172	36540	A	6222	1	1257	MNDATAVQEGSQMYSWQKLT PTGPFIMQPEGMGRLFAINKMA EGPFPEHYEPIETPLGTNPLHPN VVSNPVVRLYEQDALRMGKKE QFPYVGTTYRLTEHFHTWTKH ALLNAIAQPEQFVEISETLAAAK GINNGDRVTVSSKRGFIRAVAV VTRRLKPLNVNGQQVETVGPI HWGFEGVARKGYIANTLTPNV GDANSQTPEYKAFL/GQHREGV RN*LHHAAFSGA*LQCFQYAH NSRKNN
6173	36541	A	6223	737	941	WLRMMEHRILFPLWKRESKKA HYVQSSVLLCLGMLR*KYK GK KGKKERKKKDEKRKGNGKKRI KIHSI
6174	36542	A	6224	1	1072	
6175	36543	A	6225	1	585	
6176	36544	A	6226	1	930	
6177	36545	A	6227	28	392	AGEVPLQLPPAAVCSACLQRPA LWWNSSFFL*SCLHALFH*VDL QSLIAFLLLD*SSY*YLCMLHEV LVLCFSAPSGHLCSSLS*LF*LA HLTFFQGS*LPCIGLEHASLAQR SLLLPTF
6178	36546	A	6228	1	271	SAIVTFVCFMKFSCCVFQLHQV FHVLFKLVILVSSSCNLF SRFLA SLHWVTTCFSSEEFVITHLLKP APVNSSNSFSVQFCSLAGKEL

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6179	36547	A	6229	1	1089	MGWRPRWLPYLYWGFQSDLC PHCKRKAQEEDSLAAQAASHP RLSANSKNNSWKGQYSYALFK AMRHMLCIGYGRQAPAAVSDV WLTMLSMIVGATCYAMFIGH/ ATALIQVLDCSRRQYQEKVVLP REHPNIGSSQEGGTWHQTVGL QQTSDKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGK HYGKQSLTTSAANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQSSATTRDAELANGALGII ELDNDSPKKRGATQRSSEENI TLKAYKRDVRSLLMLTRNEDV ADSLNSSKKRQNYQLPSIRSVT RCKKIGVCAKGIGCGQGTHYLS VSILNTADRDRRKLGFTRTSMY
6180	36548	B	6230	1	1140	
6181	36549	A	6231	3	204	GSDYELGLW*PWLTEATDLH GECYSS*SGASGVVRSSLWARG LAGFRSEAADLRGRESVAVTN
6182	36550	A	6232	1	1296	
6183	36551	B	6233	1	1686	
6184	36552	A	6234	1	627	
6185	36553	A	6235	570	736	SATFGRSSRSGCSG\FPAASRRG RLPLSPPPWPAV\RVYPCGMLD NKASAAHPPKKK
6186	36554	A	6236	1	103	
6187	36555	A	6237	699	887	GLQPPAPRETRPLY*TLAWNLIH FLFVSPLDSCDLVRSVLTCLSP GNSPSFDMHRYQLPCVH
6188	36556	A	6238	2	803	
6189	36557	A	6239	2	1277	YKETYLIHLFHTFTGLSIAFYNF GNQLYHSLLCIVLQFLRLMG RTITAVLTTFCFQMayLLAGYY YTATGNYDIKWTPHCVLTLK LIGLAVDYFDGGKDQNSLSSEQ QKYAIRGVPSLLEVAGFSYFYG AFLVGPQFSMNHMYMKLVQGEL IDIPGKIPNSIIPALKRLSLGLFY VGYTLLSPHITEDYLLTEDYDN HPFWFRCMYMLIWGKFVLYKY VTCWLVTGVCILTGLGFNGFE EKGKAKWDACANMKVWLFET NPRFTGTIASFNINTNAWVARYI FKRLKFLGNKELSQGLSMLFLF LWHGLHSGYLVCFQMEFLIVIV ERQAARLIQESPTLSKLAATVL QPFYYLVQQTIIHWLFMGYSMT AFCLFTWDKWLKVYKSIYFLG HIFFLSLLFILPYIHK\AMVPRKE

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6190	36558	A	6240	56	324	
6191	36559	A	6241	68	487	
6192	36560	A	6242	52	457	
6193	36561	A	6243	263	787	SLEV*KWPGVACRLQL*P/MVP APKS*ESKSAGSLNTPSAICRDA SGRGLARPWLRSKCLACHLV DTRSKTAGGLAPVPSAHLISVR EREPLCAVLVSQLEFRVGVGL VGPTLGARREPCWPQAMGDLA PEPVAALRLISRRALPAFPWGR ARDLQPAMPEPPTHSMGSCAPE PPR
6194	36562	A	6244	3	236	
6195	36563	C	6245	1	1608	
6196	36564	B	6246	1	1083	
6197	36565	A	6247	823	1055	KQKDG TGAPWSRGRSSGRLG THRSRRGW EAQAWRAAGPET CPAGRQLRPGEKSSAAPG*RSR RKDAYEMDTAKKK
6198	36566	B	6248	1	390	
6199	36567	A	6249	27	363	
6200	36568	B	6250	1132	1268	
6201	36569	A	6251	11	489	
6202	36570	A	6252	356	638	
6203	36571	A	6253	1	507	
6204	36572	A	6254	80	336	
6205	36573	B	6255	100	912	
6206	36574	B	6256	821	2992	
6207	36575	A	6257	2	602	
6208	36576	A	6258	1	519	
6209	36577	A	6259	3	228	STGVPSQVRTCLLEKASVLFNT GALY TQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
6210	36578	A	6260	1	963	
6211	36579	A	6261	1	925	
6212	36580	A	6262	1	397	
6213	36581	A	6263	1	2625	
6214	36582	A	6264	11	241	SLQHLPATFLPVSKSPVKHNC VEVLDSVYSSGPNHRDHP*TSV DWEL YMDGSSFTNPCKVTLKK TTSPAPVTPGS
6215	36583	A	6265	1	1662	
6216	36584	B	6266	1	897	
6217	36585	A	6267	3	258	
6218	36586	A	6268	1	279	
6219	36587	A	6269	1	258	
6220	36588	A	6270	1	639	
6221	36589	B	6271	1	1935	
6222	36590	A	6272	698	1643	

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6223	36591	A	6273	91	386	IFDFLLLYVSGCNSIAEPQHFT TTVTRCSPTVAFVEFPSSPQLKN DVSEKDKQK\K\PENEMSGKGG SWVLFTKGEVQEWRESGLNPT KFNMGPLIYS
6224	36592	A	6274	1	2538	
6225	36593	A	6275	1	471	
6226	36594	A	6276	152	520	CPLTLLPSRGAGLGTCSPCLS LPPTPWAPVRPEPPRRAPPPAPR RPVPSTGKEQTTQGLRNASARR GTGRQLHLSPGVGSTG*SQCL
6227	36595	A	6277	831	1449	HPGQWLRRVCWVSSGAGPLAL CSISCPALAAFPVGLGTCSPPC LSLPPTPWAPVRPEPPRRAPPPA PR/PPSPIDHPRAEYE/PHGAGL AGSSTCSPSAESTG*SQLGS*VV RVRGFILEVSETKNPPIPDTFGL PPGSSSAASTLVQVTRL*ISAISL PHLLSRPCSNTARGPVPAVPG AAVRAPAAGGRWCGGARGRG RRGGGH
6228	36596	C	6278	1	426	
6229	36597	A	6279	1	535	MKHSGAQLASPSGS\PLGPQVE LPASPVPCACTSQPLGGRWDW APWSRGWCSSGRLGPHRSPWS GWE\LRHGGQLQVSPAPREGS* GPARNP/GTAPGRPAAPS\GGPP SPRPPRTAGPQALRAAPV\LA PLPPHLPAS*GSLQWPWA*KE APTVQCQAEGLLKCQSGSPGR GGAESE
6230	36598	B	6280	1	1743	
6231	36599	A	6281	1	428	GTR EEHLKRSGREIALPIEACV MLLLETGMKEEGLFRIGAGASK LKKLKAALDCS\LTWDEFYSD PHAVAG\ALKSYLRELPEPLMT FNLYEEWAQVASVQDQGQKT FKDLWRTCQKLPQNFVNFY LIKFLAKLAQTS DV
6232	36600	A	6282	135	512	LPFRGAGLETCSPPCLSLPPPPW APVRPKPPR*APPPAPRRVPST TQGSLGPHCFYEL*HSP*RSAAS LLKPARP*AHREERTTP/GRSAL/ TSCNTHREGLQ/PSLRKKETPNT SEHQKEQTPDAPP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6233	36601	A	6283	698	2233	IQAAMQAAPQFGPSTED*CCPIT SEAPWAIMDAKLRLKPPSHPL VSPHLNPQVWDTSSPSLATEHA SLTISLKPNNHPYPAQSQYSIPQH ALKGSKPVITRLLLEHGLLPINS PYNPILPVQKLDKSYRLVQHL CLIQIVLPIHPMVPNPYTLLSSI PFTTHYSVLDLKHAFFTIPLYPS SQPLFAFTWTDPDTHQAQQITL AVLPQCFIDSPHYFSQAQISSSS VTYLGIIILMKTHIGLGAVEQGV VLVGEARAAQEPMEWVGSG MVGCRSRALPRGKA AKARREI ERSAVTIVPVLDFNP AFHIIPDTT PDHHCISLIHLTFTPFPHISFFP VPHLEHTWFIDGSSTRPNCHSP AKAGYAIVSSTSIEATALPRST TSQQAKLIAYTDSKCAFHILHH HAVIWEERNFLTMQGASIINAF LIKTLKLDILLPKEAGVIHCKGH QKASDPITQDNAYADKVAKKQ LAFQLLSLTAVFLLLRPLSPTSP LKLPLINLFPHKANDS
6234	36602	A	6284	1	1239	
6235	36603	A	6285	1	477	QRPPHGVFVLGVAGRVHGPPEL ASHKAGPQLGDVGVCAGQGG QVGPLVLQPVEHIQQLPG/AG HCAHQ*QGSPS*SSLRPRPSLQ CRRPQGATATIRSTWWGPRGP VCTAALVPLCWPGWPVQKDEL QAVRSHSALASAMQTCSLAGP GLGSSHARLTA
6236	36604	A	6286	1	1134	
6237	36605	A	6287	673	836	
6238	36606	A	6288	1	225	
6239	36607	A	6289	1	468	
6240	36608	A	6290	495	1637	ESQVLSNVSPHVKV*NMASWE GKDLTVPQPDTRKGSVLRRISK RGRNASCS*DKRKASVSCLSLG NGMSRYKTRLYAPSTEIGKNRL RAGGGTCGQQYCFVKH
6241	36609	A	6291	1	507	
6242	36610	A	6292	215	389	
6243	36611	A	6293	1	255	
6244	36612	B	6294	69	1055	

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6245	36613	A	6295	23	1596	IKPQRWGETRAEMLKILKTREP FLLQRIASPRQQWNKAGQRRS WFFERL/NKIDRLRLARLIKKKRE KNQIDAIKNDKGDITTDPTIEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEELESNRPI TGSEIEAIISSLRTKKSPGPDGFT AEFYQRYKEELVLFLLKLFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRLISLMNIDVKILNKIL ANRIQQHIKKLVHHDQVGFIPG MPDWFNICKSINIHHINRTNGK NHMIISDAEKA FEKIQQC FMLK TLNKLGDGMYLKIIIRAIFDKPT ANVILNGQKLEAFPLKTGTTQG CPLSPLLFKIVLEVLRARIRQEK EIKRIQLGKEEAKLSLFADDMIV YLENPIVSAQNLLQLRSNFSKV LGYKINMQKSQAFLYTKNKQT ESQIMSELPFTIATKRIKYLGIQL TRDVKS LFKENYKPLLSKIKED TNKWKNIPSSWIGRISIAKMAIL PKVIYTFNAIPIKLPMFTFFTELEK
6246	36614	A	6296	1	1488	
6247	36615	A	6297	1	1401	
6248	36616	A	6298	2	1256	
6249	36617	B	6299	84	955	

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6250	36618	A	6300	735	2718	RSFPRSRPSPFLLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRV IIKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDAT EIQTTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTA E FYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPGRD TTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFI PGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQQPFMLKTLNKL GIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPLSPLLFNI VLEVLARAVRQEKEIEGIQLGK EEVKLSLFADD MIVYLENPIVS AQNLLKLISNFSKVSGYKINI QK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNKWK NIPC SWVGRINIMKMAILPKVICRFN AIIPIKLPM PFTELETTTLKFIWN QKRARKSILSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYN YLIF DKPEKNKQWGKDSL FNK*CWE NWLAIWRK LK
6251	36619	B	6301	1	2907	
6252	36620	A	6302	1	2358	
6253	36621	A	6303	1	1866	
6254	36622	A	6304	1	885	
6255	36623	A	6305	1	1059	MKNNSSEFEP LLLIPRQRGSGV DLQQTPTDLQLRVLT VRRKTN KQDIHTKTPTVRHHHQ RPKNP WDTFKA VCRGKFIALNAH KRK QERSKIDTLTSQLKEVEKQEQT QSKASRRQEITKIRGELKEIETQ KTLQKINESRSWFF EKJNKIDRL LARLIK KKKREKNQIDTIKNDKE DITTDSTEIQTTIREYYKHLYAN KLENLEEMDKFLNIYTL PRLNQ EEVESLNR PITGSEIEAIINSLPT KKSPGPDGFTA E FYQSYQEELV PFLKLFQSIEKEGILSNSFYKA NIILIPKPGRD TTKKENFRPISLM NIDAKILNKIL/ANRIQQHIKKLI HHDQVGFI PGMQGW FNI
6256	36624	A	6306	1	1692	

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6257	36625	B	6307	1	2871	
6258	36626	A	6308	2	2315	
6259	36627	A	6309	1	1210	MMSFHELVSHTAIDGHSHTSCS AWCSPIDRDYFEQENNSSSSCC CCCYHCHRKHC GGKGLSFPGE MPLSPGHFNKMMYSVSELMQG SGSGTFIPLPAELSLWLLVTNTK GQRMKNDAEIQTIREYYKHL YANKLENLEEMDKFLDTYTLF RLNQEEVESLNRPTSSEIVAIIN SLP:TKKSPGPHGFTAEEYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLMNSDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIIISDAE KAFDKIQPFMLKTLNKLGIK YLGILQTLWDVKDLFKENYKPL LKEIKEDTNKWNIPCSWVGKI NIMKMAIPPKATSPLESYKREK
6260	36628	A	6310	1	2745	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIEIQRTPQRYK SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF

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6261	36629	A	6311	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLELEKQEQTTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQI/DAIKN DKRDTIDPTEIQTIREYYKHL YANKLENLEEMDKFLDYTLF RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKL LEVLA VRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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6262	36630	A	6312	2	2143	SSDGSWWTGFWREWRQAGR SVNSWDNPKQEVRASSKDKSR GSIQEAMRMQSSAKLLCSAWT LAYSIAVRTLSSDSEGQPPLVIH RQTGSGEDLQQTPDQLRLVLT IRRKTNKQKGHPHQNPISRRQ EITKIRAELKKIETQKPFKKINES RSWFFEKINKIDRLLARLIKKKI EKNQIDAIKNDKGNITTNPTIEIQ TTIREYYKHLKYANKLEHLEEM DKFLDIYTLPRLNQEEVESVNR PITGSEIEAIINSLPTKKSPGPDF TAELYQRYKEELVPFLKLQFSI EKEGILPNSFYEASIIISKPGRD TTKKENFRPISLMNIDAKILNKI LANQIQQHIKKLIHHHQVGFIPG MQGWFNILKSINVIHHINRTKD KNHMIISIEAEKAFDKIQQPFML KTLNKLIGDGYLTLYLKIIIRAIY DKPTANIILNGQKLEAFPFKTGT RQGCPLSPLLFNIVLEALARAIR QEKEIKGIQLGKEDVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SEVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRJNIVKM AILPKTLNQKFSYWFRVKNHYI HQRTPFLKETEFNTIATLYNGA SP/CTAPKSTGTNGHQASGLPRF *RIAFCSALVKSKRKLYQGYLP GQTDREEGVSWCPGGP
6263	36631	A	6313	1	3018	
6264	36632	A	6314	1	2016	
6265	36633	B	6315	1	1215	

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6266	36634	A	6316	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEYLRLDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRKLNLTQNC STTWKLNLLNDYVWHNEM KAEIKMFFETSENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKTDLTLSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPTETQTTIKEYYKHLK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPIGSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLKLFQSIKEGILPNSFYE ASINLIPKPRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSIQVPVCR*H DCVSRKPHHLSPQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMLDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
6267	36635	A	6317	1	1797	
6268	36636	A	6318	2	2063	
6269	36637	A	6319	1	1212	

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6270	36638	A	6320	1	2718	MALFRVGMTTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEIE TQKTQKINESRSWFFEKINKID RPLARLIKKKREKNQTDITKND KGDITDPTIEIQTIREYYKHLY TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQSIEKERILPNSSYE ASIILIPKPGRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSCHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWNQKEP/CIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNLYLIDKPKD KKEWGKDSL FNKWCWENWLA ICRKLKLDPLTPYTKMNSRWI
6271	36639	A	6321	1	2307	
6272	36640	A	6322	1	1989	
6273	36641	A	6323	1	3285	
6274	36642	A	6324	3	4732	
6275	36643	B	6325	1	2693	

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6276	36644	A	6326	603	2976	DN'TARGTIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICSPSSKTKETQTTIREYY KHL\YANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLKLFQSIEKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIQGMQG WFNICKSINVIIHMKRTKDKNH MIISIDAEKAFDQIQPFMLKTL NKLIGDGYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQCCPL SPLLFNIVLEVLARAIQKEIK GFQLGKEEVKLSLFVDEMILSL ENPMVSAKNLLKLISNFSKVSG YKINVQKSQAFLYTSNRQTESQ IMSELPFTIASKRIKYLGIQLTGD VKDFFKENYKPLLNEIKEDTDK WKNIPCSRVRGINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTAC HRVGRAQQHSISKWKWYIHDW SQVGPEGTND SARYPDTTQKW TAAALQPLSRTSLKDSHEGKSS QWAE LRAVHLVLRFAWKEKW PDVQLYTD SWAVASGLAGWS GTWKKHDWKIGDKEIWGRATP VIAQWAHEQRGHGGRDGDYA
6277	36645	A	6327	3193	6107	SMKTGLEKKMKRNEQSLQEIW DYVKRPNLPLIGVPESDGD NAT KLENTLQDIIQENC PNLARQANI QIQEIQRT PQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGRV THKGKPIRLTAALSAETLQARR DRRPIFNI LKEKNFQPRISYPAK LSFVSEGEIEYFTDKQMLRDFL MTRPALKELLKEALNMETTGA PRFIKQVLRELQRDLDTHTIITG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADL
6278	36646	A	6328	1	1808	
6279	36647	A	6329	1	4695	

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6280	36648	A	6330	1	2915	MIMGDFNTPLSTLDRSTRQKVN KDTWELNSALHQADLIDIYRTP HPKSTEYTFFLAPHHTYSKIDHI AGNKALLSKCERTEITNCLSDH SAIKLQLRIKKLTQNHSTTWKL NNLLNDYWVHNEMKAEIKIF FETNKNKDTTYQNLWDTFKAV CRGKFIALNAHKRKQERSKTD RTSQLKHLENQEQTTHSKASRRS WFFEKINKIHRPLARLIKKKREK NQIDAIKNDKGDITTNPTIEIQT REYYKHLYTN
6281	36649	B	6331	1	6730	
6282	36650	A	6332	1	378	
6283	36651	A	6333	3	1700	
6284	36652	A	6334	1	1759	
6285	36653	A	6335	2	409	
6286	36654	A	6336	1	2051	MFGRSRSWVGGGHGKTSRNIH SLDHLKYL YHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVFDFLEKNMFVFLNLRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNVYVNSIIVHKFDFS DEEIMAYYISFLKTLSLKLNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDDEEHR NRGKLSDLVAEHL DHLHYLND ILHINCEFLNDVLT D HLLNRLFLP LYVYSLENQDKVFLIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHL CGAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVA AV HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPPAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSKGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNK/GKSPEKEEGLS GTQSHPGKAGTFGKEGAERK
6287	36655	A	6337	2	2753	
6288	36656	A	6338	1	577	
6289	36657	A	6339	1	849	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6290	36658	A	6340	1	1293	
6291	36659	A	6341	1	861	
6292	36660	A	6342	154	6208	RRAPGKIPGQASAF LGRTWSRP CLRTQLCVIVSCLAKAGVQGYL VGSPGGAKRFLFSERTGSFSKL AAMSSWLGLGSLGQSLGQV GGLASLTGQISNFTKDMLEMG TEEVEAELPDSRTKEIEAIHAIL RSENERLKKLCTDLEEKHEASE IQIKQQSTSYRNQLQQKEVEISH LKARQIALQDQFLKLQSAAQSV PSGAGVPATTASSSFAYGISHHP SAFHDDDMDFGDISSSQEINRL SNEVSRLESE
6293	36661	A	6343	3810	5310	SQGTCPVDRPCNVSG*RI\SIEEI EAGRIPNPHLGPVEERLALHVL QQQGLVPEHVESRPLYSPLQPD IEQAFPSFGRKSRWIRVIPFRFF LRCIIWNTRDVILDDLSTGEK MSDIYVKGWMIGFEEHKQKTD VHYRSLGGEGNFWRFIFPFDY LPAEQVCTIAKKDAFWRLDKT ESKIPARVVFQIWDNDKFSFDD FLDPYAIVSFLHQSQKTVVVK TLNPTWDQTLIFYEIEIFGEPAT VAEQPPSIVVELYDHDYGADE FMGRICQPSLERMPRLAWFPL TRGSQPSGELLASFELIQREKPA IHHIPGFESEDTLPYPPQREA NIYMVPQNIKPALQRTAIEILA WGLRNMKSYQLANISSPSLVVE CGGQTVQSCVIRNLRKNPNFDI CTLFMEVMLPREELYCPPIVK VIDNRQFGRRPVVGQCTIRSLES FLCDPYSAESPSPQGGPDDVSL LSPGEDVLIDIDDKEPLIQNYA
6294	36662	A	6344	1	527	
6295	36663	A	6345	5251	5711	PPQRGPPSSSCYSRSQRSVSRCP SRHRPSAASPRPGRPSGRSGLLA GLRLWAGAGCFQCPPCLQRGL FSPEALRPQAPAHKGLFSGSLW PQQRSHQGLRAAATS*DRRAG ALCKWCPRPSGTPRGEHLS*EN ESLPP**RWAHQTAQESQTS
6296	36664	A	6346	1	924	
6297	36665	A	6347	1	894	
6298	36666	A	6348	1	525	
6299	36667	A	6349	6	343	
6300	36668	A	6350	1	2693	
6301	36669	A	6351	26	353	
6302	36670	A	6352	1	9182	

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6303	36671	A	6353	1	8655	EAAKDLADIAAFFRSGFRKNDE MKAMDVLPILKEKVAYLSGGR DKRGGPILTFPARSNHDRIRQE DLRRLISYLACIPSEEVCKRGFT VIVDMRGSKWDSIKPLLKILQE SFPCCIHVALIIPDNFWQKQRT NFGSSKFEFETNMVSLEGLTKV VDPSQLTPEFDGCLEYNHEEWI EIRVAFEDYISNATHMLSRLEEL QDILAKKELPDLEGARNMIEE HSQLKKKVIKAPIEDLDLEGQK LLQRIQSSSEF
6304	36672	A	6354	1	1338	
6305	36673	C	6355	152	404	
6306	36674	A	6356	137	1278	MDSQPNSTRGQSGRR/MEIKGI QLGKEEVKLSLFADDIMIVYLEN A\TSQPKISLS**ATSAKSQDTKS MCKNHKHSYTPITDKQRAKS* VNSHSQLLQRE*NT*ESNL*GT* RTSSRKTTNHCSMK*KRIQTNG RTFHAHG*EESIS*KWPYCPR*F IDSMPPSSYQ*LSSQNWKRL SSSYGTTKEPASPSQS*AKRTKL EAS/LLPDFKLYYKATVTKTAW DMDEAGNHHSQQTITRTKNQT PHVLTHRWELNNENTWTQEGE HHTPGLVRRSPDPEQNFKA VR CLDLPD/PSSSFLAVLTFHFKA FLQSLR*DKPRS/SPALGTWHKP *KITPKKQ/HQAITKPNTTEYRTA VKPSVVGALPDINSFLKLGLH RITNGCLLD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6307	36675	A	6357	1	2569	MRTKTQHTRISWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTSHKASRRQEIT KIRAELEKETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTETIQT REYYKHLIYANKLKNLEEMDKF LDTYTLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMQ GWFNIRKSINVIQHVNRADKN HMIISIDAEKDFDKIQPFMLKT LNKLGIDGTYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVVEVLASAIRQEKEI KAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFIIASKRKIYLGILTRDVKDLF KENYKPLIKEIKEDTNKRKNIPC SRVGRINIVKMAILPKVIYRFNA IPIKLPMFTFFTELEKTLKFIWN QKRAHIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYSYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQWGKDSL FNKWWG ENWLAIWRKLLDPFLTPYTKI NSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTP/TSNG NKRQN*QMGSNETKELLHSCR
6308	36676	A	6358	1702	2252	FLSLFFISLASSLSILLIHIMNSW IPHSPIFTDLNVESSRLCPLGDIM M*IPLTWYLIVTCTHLSREITTV PRGLARLWSFTRICPRTHCKPIP A\VLLRAGCPPSCWWDQDTHS QLPSKRSSYTLFFCTVTEYPFLD *WP*NHGTTPC*TAPLWSMF/PCS CWYPVTGPGVSCSPSCVQVFSL FISHL*VRTCGVWFFVLAIVC*E *WFPASSMSQAVLVTVAL*YSL KSGSVMPPAFSFGGLTWRCL LFFGSIRTLK*IFPIL*RKSLVA* WGW*HYKLRWAVWPFSSRY*F FLPMSM/VMFFHLFVSSFISLSS GL*FSLKRSFMSLVSWIPKYFIL FEAIVNGSSLMIWLSVCLLLLH KNACDFCTLILYPETFLKLLISL RRFWAETMGFSRYTIMSSANR DNLTSFPN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6309	36677	A	6359	207	1209	IPRHHPPKTKPGRS*/TP*IDQ*Q ALKLRQ/CINSLPTKKSPGPDGF TAKFYQSPSLTGKNDKEPEILPY FHADFLVVPGTHQASPVLMVL GHKSFPHRNSPPSVCMAFFTQ KPPSQSIHNAVNTHTDPPLFLVL LKDRGLLVIWCHESQGDELWH LVLLDSKCCFGSMTHRMEWSG PSAAGLLEFAGGPLQTLFAWVS AVEAAEQRILLNSKCCCLIIPLE ALSQRGIWPWQGSPVPRPWTTT TLWPVRNQTQQETSLMPCQL EGKEPLALPTKEAEIEGRRTGEI KKVERDSNTNKEELLLDLAFK VSSLFDKLEEVVELLVIGELQL YPSK
6310	36678	A	6360	544	678	AFFHVSFGCINVFF*EVSVMHL CPLFDGVVFFLVNLFEEFFVDSG
6311	36679	A	6361	7	94	VRTSGVWFFVLAIVC*E*WFP ASSMSLIY
6312	36680	A	6362	381	431	ATKQDSVSKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEKEK/GNK ERKK/DKGKARQVQARQIYLLS LHLGRIRKVPNNNKA*SSCP
6313	36681	B	6363	1	603	
6314	36682	A	6364	1	987	
6315	36683	B	6365	1	444	
6316	36684	A	6366	977	1177	RTSISSPVSSSTCSPLVMPTLLPQ TVPWRMWRPCTQ*RNAGTFSP AVAMGLPVEAVICLSV*DSPA
6317	36685	A	6367	1148	1395	
6318	36686	A	6368	33	663	VHVLCDTDETGNHHSQQTIA RTKNQTPHVLTHRERLSLRRGL HSCAYSLHRWLGARHAQKGSR NTKGCGGQGPRTSERGPASGEF SENCTSLLGQRGVFSPPGRALL HSPSDG\SVPLGAVDSSP\PASTR RDWSHWAVGKPSPEREPAGKV T*TTRQLQPASP*REHPLLNSQH GHCLKISLPLLPTVLSPPPLSLC SNVTFSTRPLT
6319	36687	A	6369	1	1314	
6320	36688	A	6370	120	410	
6321	36689	A	6371	1	492	

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6322	36690	A	6372	3	945	EEVPRSMSSKKKKRKRKSRKR EEEEEEEEEEEEEEEEEEEE EERRIEGEGEEEEEEEEEGKEKID PSHLELKMVRNKNTMYEVCLM PIGIKPQVNVGAMQCILVAPYIS PIVGVINFDQVNSQGGGSKME DGIHFRGKVMLHVGKRKQRVK KGLGYAFISSMKTNEYTKLVPV EWGLAEKIPKNVEATLELGNRR SKKTGGILPLLLWNFELERDEL GYLVEEISKQPSIQQMTWVLLK AFRFIQEAEPKSSENLNPDNVIE KKNPFSEGKFMLAAEICISNEE WNGNVNPQDYGGKWLGMA EVFTATPSITGLEA
6323	36691	B	6373	1	792	
6324	36692	C	6374	348	884	
6325	36693	A	6375	1	588	
6326	36694	B	6376	1	5339	
6327	36695	B	6377	520	3146	
6328	36696	A	6378	1	2044	
6329	36697	A	6379	1	585	
6330	36698	A	6380	1	2433	
6331	36699	B	6381	53	441	
6332	36700	A	6382	2	425	
6333	36701	A	6383	1386	2569	FLRKHRESGKDEEMTALCSFPG VAGEDELQVIQPEKSVSVAAGE SATLRCAMTSLIPVGPIMWFRG AGAGRELIYNQKEGHFPRVTTV SELTKRNNLDFSISISNITPADAG TYYCVKFRKGSPDDVEFKSGA GTELSVRAKPSAPVVSGPAVRA TPEHTVSFTCESHGFSRDLTK WFKNGNELSDFQTNVDPAGDS VSYSIHSTARVVLTRGDVHSQV ICEIAHITLQGDPLRG TANLSEAI RVPPTLEVTSQPIRAENQANVT WQVSNFYPRGLQLTWLENGNV SRTETASTLIENKDGTYNWMS WLLVNTCAHRDDVVLTCQVEH DGQQAVSKSYALEISAHQKEH GSDITHEPALAPTAPLLVALLLG PKLLLVVGVSAIYICWKQKA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6334	36702	A	6384	1	2453	MEPAGPAPGRLGPVLCLLLAAS CAWSASRQLPAVQVLRGDVTC GSDHVFLLAYIKHLAVAGRRA LKATVHVHQRTLRLPGGCGSV PGKRAVTLISKCSDGQPAFPGA PAGNTNTFLVCSCGFPDLQSSR GPERALCAFIQCLMVRPEEQRE KNWPGPRGRSMARPGWNAKPP VVQAKAFKNWAVLELSTVSAR NLTGSRIPRENTKVILIGTIWVL CFEGSALGVCDPGGTHSHLAM HVVFIPVGSNNPSIVIIIIIRPIL QIKSQRSRVGETFPGVSWVAEL ESKSKHTFSQCQALLQPWGRK LSSCSQRTYNLLLVCIQSMNVI DKHLRKHGRSRVAGEEELQVI QPDKSVLVAAGETATLRCTATS LIPVGPIQWFRGAGPGRELIYNQ KEGHFPRVTTVSDLTKRNNMD FSIRIGNITPADAGTYVCVKFRK GSPDDVEFKSGAGTELSVRAPK SAPVVSGPAARATPQHTVSFTC ESHGFSPRDITLKWFKNGNELS DFQTNVDPVGVESVSYSIHSTA KVVLITREDVNSQSFW*GPTVT LQGDPLRG TANLSETIRVPPTLE VIQQPVRAENQVNVTCQVRKF YPQRLQLTWLENGNVSR TETA STVTENKDGTYNWM SWLLVN VSAHRDDVKLTCQVEHDGQPA VSKSHDLKVS AHPKEQGSNTA AENTGSNERNIYIVGVVCTLL
6335	36703	A	6385	1	405	
6336	36704	A	6386	91	2926	PACPSRLPFTNTDTHIDTSSPA SRSTRCLCISTHGVLAQSGGSSG GPAVPTVQRGIKMLVLSGCAIIV RGQPRGGPPPERQINLSNIRAGN LARRAAATQPDADTPDEPWA FPAREFLRKKLIGKEVCFTIENK TPQGREYGM IYLGKDTNGENIA ESLVAEGLATRREGMRANNPE QNRLSECEEQAKAAKGMWSE GNGSHTIRDLKYTIENPRHFVD SHHQKPVNAIIHV RDGSVVRA LLL PDYYLVTV
6337	36705	A	6387	2	448	
6338	36706	A	6388	1	645	
6339	36707	A	6389	1	294	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in U.S.S.N. 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6340	36708	A	6390	23	321	RGREHTQGIPGAGKRWH*FKV LLTQ/CW*SEFSVIRQFKAGPGG LDQFRDRSK/RWLRDLRGRLLG SLNASLVLRALFSGNWGLTAN QL*LAVGAKGDPEA
6341	36709	A	6391	1	1599	
6342	36710	A	6392	1	561	
6343	36711	A	6393	1	1833	STLASSEGQGGFWRGPRALILL LLFLGPCHARSHDGKYSREKN QPKPSPKRESGEEFRMEKLNQL WEKAQRQERYPCRRRRRVKQV AAGTPRVFLKTPEMGVFELCRP SGPHYLISNAGVRLDLLNSPVL SIPESLRGKVNDLQNKKELLER KGRGETGLARPMHDLTAAQGG YGCALVHGAQVEGAGAAGWA GTVHATCRGETGTACQEALVT ATACSSCQRGQTRAPQGQHTL ESMGLNCLPQGAASGSDHHCG PRISDLPGSAARTSRWPASSELH LPPVRLAELHADLKIQUERDELA WKKLKL DGLDEDEGEKEARLIR NLNGHWRAEDAHQDGGV NK WDIPTVVGVGVAIALVAVKL FFLPINIRCVLSESPATLHSLQV ASVLWSLEFLPYGSRSPVVIQET VILAKYGLDGKKDARQVTSNS LSGTQEDGLDDPRLEKLWHKA KTSKGFSGEELDKLWREFLHH KEKVHEYNVLETLRTEVHPG PQDGVASTGREHSPMETLFQEE LKHFEAKIEKHNNHYQK\QLEIA HEKLRHAESVGDRRSV*SASPR ESTPCLEGRTKGAGLPR*KKHL QD\LSGRI\SRARHKRTLKALGS
6344	36712	A	6394	1	185	DFFDNSAQVTIAGIPCDIRHVSP RKIECTTRAPGK\V*GSPPLSQAI EGFFLKLEMLLRDWN
6345	36713	A	6395	1	1512	
6346	36714	A	6396	117	268	QSLLEYLHLYLHLCYLHLANK QELTLTWYKE*CTFFLPSV*NPF HQNLA
6347	36715	A	6397	1	500	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6348	36716	A	6398	1301	2565	TLLTILPFYLFKNRTSLTGYLRI WILSTKLFCLSTLWLAPTLFLIP/ LPDPHDCISLIHLAFTFPFHTSFF PIPHPDHTWFDGSSSTWPNRHSP AKVGYAIVVSSTSILEATALPPS TTSQQAELIALTRALALAKGLH VNIYTDSKYAFHILHHNAVIWA ERGFLSTQRSSIIASLIKTLKKA ALLPKEAGVIHCKGHHQKASDPI AQGNAYADKTKFLDLAFPPLR LSFTCQITQAVSQALGIQWNH TPYRPQSSGKDWTVFLPLALHR IRARPREATGYSPFELLYGRFTL LSPNLVPDTSPLGDYLPVLWQA RQEIHQANLLLSTPDSQLYED TLAGRSVLIKNLTPQTLQPRWT GPYLVIIYSTPTAVRLQDPPHWV HRSRIKLCPSDNQPNLSSSSWKS QVLPTTSLKVTLISEEQ
6349	36717	A	6399	581	2517	LFLGYSHTSLLPFPVQSLHLL PLYLHTLTHKYGIPLPPWRPIM HPLPSH*NLITLTLNANIPSCST L*KD*SLLSLTCYSMAF*/QPINS PYNPILSVQKPKPYSSFRYVY SLFVESPTITIVPGPDFNLASHIIP DTTDPYDCISLIHLTFTPFPHVS FFPVPHPFHTWFDGSSSTRPNCH TPAKAGYAIVSSTSIIIEVTTLPHS TTSQQAELIALTRTLAKGLC VNIYTDPISTTMLFYGLKCFLT MQGSSIINASLIKTLKKAALLPK EAGVIHCKGPKKASDPIAQDNT YADKVAKKAASVPTSIPHSSFS PSHLVPTYSPTETSTYQSLPTQ GKWFLDQGKYLLPASQAHSILS SFCNLFHVGKPLARLSELLISF PSWKSILKEITSQCSICYSATPQ GLFRPPFPKHQAWGFVPTQD WQIDFTHMPQVGKLLKYLWV VDTFTGWVEAFPTGSEKATVVI SSLSDVIPRFCLPTSIQSNGLA MISQITQAVSQALGIQWKLCTP YHPQSSGKVKWANGLLKTHLT KLSLQLKKDWTVLLPLALLRIR ACLRNATGYSPFELLYRCSFLL GPSLIPDTRPTWTAPPKTWHYPY YLLSHTPIHRSQLLIHALLLFTL PVYTVSPSHHS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6350	36718	A	6400	281	1095	DCSKRNRHSQVIAEGNICKIQE VRRKEDTQGGEKDPESLLLPL LAPGPT/YSTYYNISVAKAELL NKLKDQPEMAEIGLGEEVDH ELAQKKIQLIESISRKLSVLREA QRGLLEDINANSALGEEVEANL KAVCKSNEFEKYHLFVGDLK VVNLLLSLSGRLARVENALNSI DSEANQEKLVLIEKKQQLTGQL ADAKELKEHVDREKLVFGMV SRYLPQDQLQDYQHFKMKS LIIEQRELEEKIKLGEEQLKCLR ESLLGPSNF
6351	36719	A	6401	1	972	
6352	36720	A	6402	514	736	
6353	36721	B	6403	446	991	
6354	36722	A	6404	521	903	NIKPASQISPG*I*VHSSPTQRLS APPSAA/GRLLSLSLPAGLVGGD TARCIPAGRLRPLCSWLDPGKL LHLSLKSKGSGGRSGAGTLQEG NQSVCIAEKPLKPAIQTQSG MNVLCRAYSWVIDWD
6355	36723	A	6405	11	545	
6356	36724	A	6406	3	2920	
6357	36725	A	6407	1	2388	
6358	36726	A	6408	275	479	
6359	36727	A	6409	1	3810	
6360	36728	A	6410	7	1047	
6361	36729	A	6411	1	705	
6362	36730	C	6412	304	638	
6363	36731	A	6413	99	759	WAYLDFWM*HIPHLGVLL/SAH LLSDLNSCQF*MGSRTGSA PGSCSAALPLGPYPADPMVLE VSMADRASPDPKFLFPVP MTLHSALEVLVPEGGLPPGD TTTIPLNW/IVKIAT*TLWVPPTF KFTGCRNLTMWKLPRLGASTL *SNSLRCTLTFSHDWSGWDAG HQVIRPHGFAGYNTCCGFHRL MLSACGFSRQMVQAVNGSTTL GSGG
6364	36732	A	6414	1	685	
6365	36733	A	6415	1	1359	
6366	36734	A	6416	3	7714	
6367	36735	A	6417	1	723	
6368	36736	A	6418	1	528	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6369	36737	A	6419	38	530	HSPRRSAASLLSQRDHEPHQKE ETPNTSEHQKEKTPDTPPLRTV TLTVRVHGFIEVSETKNPPIPD TKLRG/ERLQGGFLAGFRSE/GC RPSP*VLQLIKAVWTQRPLGGR WDWAPWSRRWCSSGRLRPHR NQWSGWEAQAWGLQVPEPCP AGRQLRPGEKSSAP
6370	36738	A	6420	1	649	
6371	36739	A	6421	1	987	
6372	36740	A	6422	1	924	
6373	36741	A	6423	1	435	
6374	36742	A	6424	1	147	
6375	36743	A	6425	1	1107	
6376	36744	A	6426	3	913	
6377	36745	A	6427	1	159	
6378	36746	A	6428	313	1083	
6379	36747	A	6429	1	1245	MAQELRDTCTSFSSRFQVEER VMVIEDQINEMKQEEKFREKR VKRNKQSLQEIWDYVKRPNLR LIGVPEKNLEETDKFLDTYTLPR LNQEEVESLNRPTDSEIEAIINS LPTKKSSGPDGFTAIFYQRYKE ELP/RQRHNKKREF*TNIPDEHR CKSPQ*NTGKPNAAHQKAYPP *SSGLHPWDARLVQHTQINKRN PAYKQNNQGGKPHDYLSRCRKG L*QNSAALHAKNSQ*IRY*WDI SQNNKSYL*QTHSQYHTEWAK AGSIFFENWHKRGMPSLTTPIQ HSVGSSGQGNQAGERNKGYSI RKRGSQIVPVYR*HNCISRKPH HLSPKSP*AGKQ/SSAKSQD/DKI NVQKSQAFLHTNNRQTESQIMS E/APIHNCYKENKISRNPYKGC EGPLQGELQTTAQRSKKGHKQI
6380	36748	A	6430	39	314	KSECLITYTKGSQRLASNGTKLD GE*L**VDRIRLQKIGNDKLLPA KGGCSNPSQRS*KPRKKIRQMA N*NKQHRGDLK*PDGAENHGT RTT
6381	36749	A	6431	213	843	VDRSRLQKVSNNKLL*AKGECS NPLQGS*KP*KKIRRMAN*NKH CREDLK*PDGVENNGTRTS*FM HKLQ*PI*SSGRKGISD*R*N**N KIHQG*NEGKSVKGSQRERSSY PQRKAHQTNBSLSRNPTSQKK VGANIQHS*RKEFSTQNFISST KLHK*RRNKIFYRQADAERFCH HQACVTRAPEGSTKHGKKQPV PAPAKTGQIV

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6382	36750	A	6432	1	2112	MRAFVVLMDVSKLPSEGGPG LRSNQQHMRMFLTSVDRGSVS LLADAVAAATPQGTSQPRGPS NLAADLRVAEESGMENFLK MSFDSIRPAQDGGCTPEISMVTP SPGWSVHTGDLGDGHLPRMVS AHRRSRWSPPPQDGGCTPEISM VIPSPGCSVHTGDLGDGHLPRM LSAHRRSRWSPPPQDAQCTPEIS MVTPSPGWSVHTGDLGDGHLPR RMVSAHRRSRWSPPPQDAQCT PEISMVTPSPGCSVHTG
6383	36751	A	6433	1	648	
6384	36752	A	6434	1	1539	MLVSFVSLGSLCLQPGSQTLL KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE/ SAN*NQQCREDLK*PEAEIHGT RTS*HMHKLQ*PI*SSGRKGVS *GSNQ*NK*WGEWNQVGKHS GYYPGELPQPSKAGQHSNSGNT ENTTKILLEKSNPKTHNCQIHQ G*NEGKSVKGSQRERTREAR NKFKS*QKARYN*DQCRTERD RNTENPSKN**IQEPVF*KDQQN **NASKTNKEEKREESNRRNKK **KNRTVKPHVSFTLLPALSHVS EKNEAESMNSLIPPPNLHTPAQ APFPLPTKEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIEIRR TPQRYSSRKATPRHIIVRFTKVE MKEKVLRAAREKGLERQEQTN SKASRRQDITKISAEKIEIETQK TLQKINEFRSRFFKINKIDKTL ARLIKKKREKNQTDIAIKNDKR DITTDPTIEIQTIREYYKHLN KLENLEEMDKFLDTYTLPRLNQ EEAESLNRTITGSEIAINSIPT
6385	36753	B	6435	137	586	
6386	36754	A	6436	129	506	
6387	36755	A	6437	1	237	
6388	36756	A	6438	182	1034	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6389	36757	A	6439	203	650	SAIVCGSPLRLRMQAVSSRINSA HSRGAIIYSQASSSAACPSVSI AF LRR*IEANVS/WIRTLTLLCTPK CGPGFKHRIVLCKSSDLSKTFPA AQCPEESKPPVIRCSLGRCP PP RWVTGDWGQ/CDSRDP RPGR RRDFCRNGRAGAGH
6390	36758	A	6440	207	426	AECTRCAIPK/HSCYPVLLIVVS P*KKQ\NCSLGELSCWRRESCRS SWSNKALPSLTRCLRGFVCGLS CYKGSS
6391	36759	A	6441	524	783	TAVLAARISNQWILSCWS/AVG CTPKCGPGFKHRIVLCKSSDLS KTFPAAQCPEESKPPVIRCSLG RCPPPRWVTGDWGQLSPTREK
6392	36760	A	6442	1	1524	
6393	36761	A	6443	1	8738	
6394	36762	A	6444	1	642	
6395	36763	A	6445	1	549	
6396	36764	A	6446	8	434	
6397	36765	A	6447	1	2922	
6398	36766	A	6448	18	1158	FLDFDCPYGSAHITGLRFWLPW YRKRQRYWGSHGNCMP PPSLR VPERCPSHTEPRNL TGA*ELLLL GLSEDPQLPILAGLSLSMYLVT VLRNLLISLAVSSDLSHLHTPMC FFLSNLCWADIGFTSAMVPKMI VDMQSHSRVISYAGCLTQMSLF AIFGGMEE\NMLLSVMAYDWF VAICHPLHYPVIMNPHLG VFLD LGAFFLSLLDSQLHSWIVLQFTF FKNVEISNFV*DPSQLLN LACSD SVINSIFIYLD SIMFGFLPISGILW SYANNVPSILRISSDRKSKAFS TCRSHLAVVCLFYGTGIGVYLT SAVAPPLRNGVVASVTYAVVT PMLNPFIIYSQRNRDIQSALRRLR SRTVESHDLHPFSCVGGKKGQA
6399	36767	A	6449	2	1535	
6400	36768	A	6450	1	635	
6401	36769	A	6451	222	1040	
6402	36770	A	6452	2	1135	
6403	36771	A	6453	1	576	

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6404	36772	A	6454	2	694	QCGGIQRSHGWSWQEASDSVW QLQSMWMLDKLTGVFAPRPST GPHKLR\IECLSRJIFLRNRLKYA LTGDEVKKI\CMQRFIK\DGKV RT\DITYPVG\FMDV\ISIDKTGR EFPVLIYDTKG/RAFAVHRITPÆ EAQVPSCAKVRRDLCGAQKGIP HLVTH\DARTIPLRSPSSKVND\ TIQ\IDLEDWARFT*FSSKFDNW *TCCMGDWEGA*P*GRNWVLI HQQRRRAPWDLF
6405	36773	A	6455	1	243	
6406	36774	A	6456	3	766	
6407	36775	A	6457	1	741	
6408	36776	B	6458	500	8643	
6409	36777	A	6459	1	7863	MKPRTLTVRVTALKVARLESV PSDVQMCSEFLPSDSAAQLASP SGSRTGAAGGAA\YQSCAVLPH SSALWVVDGTRCRGAGGSAHQ GGSATQEPTERVEGSGMAGCR SRVLP\HWKAANVLGMSVESAP AVEEEKGEELEQKEKEKEEDTS GNTTHSLGAEDTASSQLGFGVL ELSQSQDVEENTVPYEVDKEQL QSVTTNSGYTRLSDVDANTAİK HEEQSNEDIPIAEQSSKDIPVTA QPSKDVHV\VKEQNPPPA
6410	36778	A	6460	2	669	ERRRRKLTI\PCPPHPAPPTGGQ ACRENAEGIL*AANTSEPGKDA EK*KIKV*LAP/CSHSGSSLQSDP HFGCSLGPS/DPALGLSGCILPPC SGSYLAPAPNSRIPKPKLKPW/H /ESYLPSAVRPHGTQAPGLWPE RGL*PAGFLLRPEPVRAASER/Q EAVSPER*VPRPPKAQQLHGQS PDPSSLCTALRQDHTHWLDARS VYPDWRGQPWPPLHQDCGHG GWR
6411	36779	B	6461	241	369	
6412	36780	A	6462	1	510	
6413	36781	B	6463	1	630	
6414	36782	A	6464	229	561	SCRGYSRILL\LFHKSSWCSQVIS IFRYNIICSRLPRSWKWRLPVY MNWL*YHWF\KQYHSSINFISFR SMWFIII\NFKRSPAFILSGSWSIS IARWQIFVFFTTFGSRTKV

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6415	36783	A	6465	1271	1710	TEGLGHRSETPGGAALDALTG ERPRVACFPAARGRLRPRRL MIGPFETGGGQRLLTLPRLRRR QRRRP/WQGLERPHVRNWGIEL ETLRDAFRPQPSVWRTARGEA GKRKGRLVECLGSQRKVLEGV LLYAVTRGSFPNLFTRD
6416	36784	B	6466	1	772	
6417	36785	A	6467	1	1272	
6418	36786	A	6468	3	236	
6419	36787	C	6469	1	457	
6420	36788	B	6470	148	324	
6421	36789	A	6471	1	1407	
6422	36790	A	6472	1	651	
6423	36791	A	6473	619	835	
6424	36792	A	6474	52	535	
6425	36793	A	6475	319	647	LCRRIMYFCVMKNWMQSLW KLCTNKR*RIDKPTLHQVVVRK *LTPLGMKNQVDSLELLETRSL KKDPVELGSKSLRRCCCQTEPV NLLPHVSIGTLKI*SRILRLQRP
6426	36794	A	6476	39	515	
6427	36795	B	6477	1	807	
6428	36796	A	6478	3	247	GANICCW*GLQE/VFHSW*KTQ EPSWLHLVDPTTGLQVELPASP APFARIPQLGGRWDWAPWSR GWCSSGRLGQHRSPWSG
6429	36797	A	6479	27	363	
6430	36798	B	6480	1132	1268	
6431	36799	A	6481	1628	2008	
6432	36800	A	6482	953	1087	
6433	36801	A	6483	2	443	QLAGRCGGRGMSGNRGC/WGA CGPAGVPGG/CWAWCALHSEE PASPALRSISRRALAAFPRGRAR DLQPAMPEPPTPSVGSCAAQAS PTSAAPCSMAPSPIDHPRAEECV ARRGTGRHDELIVALPFMMIPW HSSIQPFTHPFNWNFG
6434	36802	C	6484	175	423	
6435	36803	B	6485	122	608	
6436	36804	A	6486	644	1149	KTMHWKAPLMSWHMHRASSQ KQTRTGTQT/MEAQLQQQLQRY QEALLQVLRKGEKKA FNMGNI SEVLQRADESCSQFYERLYEAF QLCSPFDPEATENQCMVNAVF VGQTQGDIRRKLQKLECFTGM NVTQVLEVATKVYTNCEEETQ GKGQFAGGSTYKGGECPKTK
6437	36805	A	6487	1	2847	
6438	36806	B	6488	329	742	
6439	36807	A	6489	1	1035	

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6440	36808	A	6490	13	630	INPPPPFRPEPPSSNSPKMTDH KGERGEATRYMFSRPFARK\HG VVPLGPHICRIYRKGDIV\IKG MGYCSKKGIAPTKCY\HGQNLE GVLPMLPQHACWPFV\NQPVL GQSFFPRELMCRIEHI*ALLRAR DKLPETVLKENDSEKERSPNEK GTWGSNLKRHPGSTPEEAHFV RTQWGRSLELAGTLFPMNFMG IIGVKEIK
6441	36809	A	6491	1	1020	
6442	36810	A	6492	1	330	
6443	36811	C	6493	250	372	
6444	36812	A	6494	1	345	
6445	36813	A	6495	2	335	TVRAYNVPQHAVGIVVNRQVK GKIPAKRINVGIKHFKHSTS*EN FLKRMKENDQKKKEAKEKVT WIQLKHQSAPPRE/AQCERTNG KEPELLEPLPYEFMHNTYIHIYV CVH
6446	36814	A	6496	2	490	
6447	36815	A	6497	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQ/RKAPGKNLVYISLVRLA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
6448	36816	A	6498	54	553	
6449	36817	A	6499	131	803	TMFCQTGSSVRRVGGPWAEN RTAMLRPCGGTFARKTRLSRLG NSPKMNEQQRGKRRGTPIMFS KGLLRKHG\VVPLAHIFMR\IYK \KGDIVRHPRGMGYLVPKRELP PQSCYPWPKPGRSLTNVTPAML VGHLL*NKQV*GQRFLPKRNL MWRI*APFRHFLRSPRLASLKT CGRENGSRKKERKPKGGKVTW GFQLKRRHLGFPPQEEATFLK EPIGGREP
6450	36818	A	6500	1	489	

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6451	36819	A	6501	29	2028	ENEEEGEKMASTDYSTYSQAA AQQGYSAIYTAQPTQGYAQT QQAYGQSYGTYGQPTDVS YTAQTTATYGQTAYATSYGQPP TGYTTPTAPQAYSQPVQGYGT GAYDTTATVTTTQASYAAQS AYGTQPAYPAYGQQPAATCPT RTED* NKP TETSQ PQSSTGGYN QPSLGYGQSNYSYPQVPGSYP MQPVTAPPSYPPTSYSSTQPTSY DQSSYSQONTYGPSSYGGQSS YGGQSSYGGQPPTSYPQTGSY SQAPSQYSQQSSSYGGQSSFRQ DHPSSMGVYQGESSGGFSGPGE NRSMSGPDNRGRGRGGFDRGG MSRGGRRGGRRGGMGSA GERG GFNKPGGPMDEGPDLDLGP PV DPDESDNSAIYVQGLNDSV TL DDLADFFKQCGVVKMNR TG QPMIHIYLDKETGKPKGD ATVS YEDPPTAKAAVEWFDGKDF QG SKLKVSLARKKPPMNSMR GGL PPREGRMPPPLRGGPGGPG GP GGPMGRMGGRGGDRGGFPP RG PRGSRGNPSGGGNVQHRAG DW QCPNPGCGNQNF AWRTECNQC KAPKPEGFLPPFP PPGDRGRG GPGGMRGGRRGGLMDRGG PGG MFRGGRRGGDRGGFRGG RMD RGGFGGRRGGPGGPPG PLME QMGGRRGGRRGGPGKMDK GEH
6452	36820	A	6502	1	693	
6453	36821	A	6503	3	657	
6454	36822	A	6504	1	434	
6455	36823	A	6505	208	443	

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6456	36824	A	6506	3	2650	LLPAFLLLCSDSHFLQFCSQFAP RKTQSGSVNNIQANIIAKKSN NHLMKKNDQKFKDLPQMAGH PIHHQAQGPAGAKNPQEQRRP MGQTTLPAEQEESRVKCKNCG AFGHSARNKTCPIKRWSGALPL QVLGSHKEKENLKPAKAQLPFT TPGPFTTNDREKERSPSSTMNPS EMQRKASPRRWKHHNQTPSIH KVNKMVMSEEQMKLPSTKKA EPPTWAQLKKLTQLPKKSLEN TKVTQTPENTLLAALMIVST/A GAAAANYTYWAYVFPPLIRA VTWMDNPIEVYVNNSAWVPGP TDDRCDPKPEEEGMMINISTGY RYPPICLGRAPACLMPAIQNW LEVPTVGTTSRFTYHTGLLTFR DVAIEFSQEEWKCLDPALEDSY TRRKANSCGKPYKCNCEGKAF TQNSNLTSHRRIHSGEKPYKCS ECGKTFTVRSNLTIHQVIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNCEGKAFRGH SNLTTHQLIHTGEKPFKCNCEG KLFTQNSHLISHWRIHTGEKPY KCNCEGKAFSVRSSLAIHQTIHT GEKPYKCNCEGKVFRVGRGVSI GTTCLLSVFQVITVSSRKSASP ENRATQSILILAPPTSRGSGPGP ASVLRRLAQTRKRMAWTESCT AACAFPSCLVLLYRGRGVPTDL QVPAPLFSTQSKLKRPGSRTKSS
6457	36825	A	6507	54	360	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSEESD
6458	36826	A	6508	525	3656	SSTMNPSEMQRKAPRRRRHR NRAPLTHKMNMVMTSEEQMK LPSTKKAEPPTWAQLKKLTQLA TKYLENTKVTQTPENTLLAAL MIVSMVVSLPMPAGAAAANYT YWAYVFPPLIRAVTWMDNPIE VYVNNSAWVPGPTDDHCPAK PEEEGMMINISTGYRYPPICLGR APACLMPAIQNWLEVPTVGT TSRFTYHTIDLMTEKWVVLASV EVLLRFPLKPGEDPTARYVSNK KCQPSVDWPTTISQRRGY
6459	36827	A	6509	1	246	
6460	36828	A	6510	1	246	

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6461	36829	A	6511	1	279	
6462	36830	A	6512	1	363	
6463	36831	C	6513	109	245	
6464	36832	A	6514	2	429	LMTFCWDTPRQSGVPRERMPH TGTWRTVGIRCPKKKLRANS MMRGKVQPFRP/DIQA YGAAPF EDLQVDFREMPKCGGNKYVLV LGRTYSGWVEAYPTRTEKTRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAK
6465	36833	C	6515	31	895	
6466	36834	A	6516	2	4735	
6467	36835	A	6517	263	418	
6468	36836	A	6518	120	295	YDPLPTWILGKISQRGAEEPAQ HPGCQL*LPPP/SPPR TSSSPSCA GLTSVSPRPRFPR
6469	36837	A	6519	1	1758	MKIRRRFPSSLQLSADLQVPVR KAPRQGV SQEKRTKPSLELMIS GTISQEDIRNNVTRGCTPPAIQR VISSPLLAIRNNVTEGVYTPCD TGGRVHLPVILLISR DGGHDIS FNIAVDVHSPCDTDPNIQGV EY DMTPNIAMNVQPPGTISQKRCT LPAILGLISYASSVNIRSNITGWL YIDRYVGSHVILYPLGIRMGVT GEMKGERRRGLHAATKWLEE HAPADYQNPQEYGR TQLPGTQ PQLDPHEREDMQRLNRDREAL LEGFKRGAQKATNVNKVSEVI QGKEESPAQFHQRLCEACAKQ VLVNGDAVSREEKRKENERQA RRNADLLVSCSNQSGPPKEARE ELWTKDYRPGQDLRLLSQATL TFHPTVPSPSTLLGLLPAEDSWF TCLDLKDAFFPIRSAPESQKLFA FQWEDPESALAKTVRQRCVSC RQHHA\GKVQPFRP/DIQA YGA AAFEDLQVDFTEMPECGGNKY LPVLGRTYSGWVETYPTRA EK AREVTRVLLRDLIPREL PFRIG SDNGPAFVADLLQKTATVLGIT RKLHAASRPQSSGKGIQNNRTG GVYTPCDIESHVILFRSGY
6470	36838	A	6520	1111	1342	MFVPHIGFQNTAALCLRLGLV LP*PVGFPA GSCLLI*WNRHWH VPDFSCVTT PQEWCGGVSDVC CGHPHAEPFHLQ

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6471	36839	A	6521	1	1144	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFNVRDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRALAATALLVQEANKLTLG QKLNKASRAVVTLMNTKGHH WLTNATLTDYQTLLENPRITIE VCNTLHPATLLPVSKSPVKPGC VEVLDSIDSSRPDLWDQPWASV DWELYLDGSSFFNPQGEVEG\S RGDTSELPPCWVCGIPALTQRL EKQHLPPSGHQGSLKHLIWDLL LLTKKRTFSSMI
6472	36840	A	6522	1	554	
6473	36841	B	6523	63	620	
6474	36842	A	6524	1	796	SRTKNYQPVQDLRLHQAKL FHPTVNPSTLLGFPPAEDSWFT CLDLKDAFFPIRLAPERQKLFAF QWEDPESGWPPCWRALAATALL VQEANKLTLGQKLNKASRA VVTLMNTKGHHWLTNATLTD YQTLLENPRITIEVCNTLHPAT LLPVSKSPVKPGCVELDSIDSS RPDLWDQPWASVDWELYLDG SSFFNPQGEVEG\SRGDTSELPP CWVCGIPALTQRLKQHLPPSG HQGSLKHLIWDLLLLTKKRTFS
6475	36843	A	6525	3	2640	
6476	36844	A	6526	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQIPSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVPDPSSAMM/SR RAHRSRGPDQGYPLQGD*PGE PRPQEH*RGHSQERLPSEKQTP ICPPAQTQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRLNLLIS
6477	36845	A	6527	1	1860	
6478	36846	A	6528	1	1458	
6479	36847	B	6529	1	1503	

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6480	36848	A	6530	3	515	TISQKRCTLPAILGLISYASSVNI RSNITGWL YIDRYVGSHVILYP LGIRMGVTGEMKGERRRGLHA ATKWLEEHAPADYQNPQEYGR TQLPGTQPQLDPHEREDMQRL NRDREALLEGFKRGAQKATNV NKVSEVIQGKEESPAQFHQRLC EAYRMYTPLDHDSPENQORMIH MALVRQSAEDMRRKLQKQAG LAGMNPSQLLEIASQVFVNRDA VSPKENS KENG GQARRHDDL F SPVEPDCVEVLDSIHSSRPDLRD QPWPSGDW/RTICGWEQLLQPP RRERCRCVCSDNPGH/WLLKPHR CPRPLQARKLNSLLSLGP*NSTR DCVRPIVCILPLITIALKISA
6481	36849	B	6531	96	2524	
6482	36850	B	6532	61	2025	
6483	36851	A	6533	674	2913	
6484	36852	B	6534	120	1849	
6485	36853	A	6535	1	426	
6486	36854	A	6536	2	475	
6487	36855	A	6537	1	501	
6488	36856	A	6538	15	593	SMWWNSAREPCPWRIVDDCGG AFTMGVIGGGVFQAIKGFRNAP VCRLLSEAPLFIYSCSRVSPTV NVSSERAESRPTLFMAVSLHMA WCLAHIGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWSITSGA\LTGA VLAARSAPLAM\VG SAMMGGI LL\ALIEGV SILL/TR*TATV
6489	36857	A	6539	2	557	RRFRASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLR\GKEDPWSITSGA\LTG AVL\AAR\SGPLAMGGLQQ*WG GILFAPHLRAF GILLTRYTAQQ FRNAPPFLEDPSQLPPKDGTPA \TGYP\SYQQYH
6490	36858	A	6540	223	2274	

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6491	36859	A	6541	2795	3762	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWDYVVKRPNRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPINFILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6492	36860	A	6542	245	1293	TGAVPIRPSWQRWGKNRTEKL ETLKRRAPLLQRNAVPHQQQ NKAGWRMILTS*EKKASDDQIT LSYGRFTKPK/DKEVENFEKNL EECITRITNTEKCLKELMELKTK APELREECRSLRSRCDQLEERV SAMEDEMNMKREGKFREKRI KRNEQSLQEIWDYVVKRPNLHLI GVPESDVENGTKLENTLQDIIQ ENFPNLARQANVQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTLKGKPIR LTADLSAETLQARREWGPINFIL KEKNFQPRISYPAKLSFISEGEIK YFIDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
6493	36861	C	6543	116	283	
6494	36862	A	6544	51	281	KSQNQLLSSKGEYADGQQDQV SIPAPSPYTLSPQTQSCPVRPE LGL*GASSAVQAPAVRYLTRFL LFVMSNLHSP
6495	36863	B	6545	1	897	
6496	36864	B	6546	91	8030	
6497	36865	A	6547	126	362	

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6498	36866	A	6548	936	2064	ERADCLFKRKTNNQKGHLHRK PICTSPSSKTKSR*NHKDGEKTE QKNWKL*NAERLSSS/IRNAV HQQQNKAGWRMILTS*EKKAS DDQITLSYGRTFKPK/DKEVENF EKNLEECITRITNTEKCLKELME LGTKARELHEECRLSRSCDQL EERSAMEDEMNMKREGKFR EKRIKRNEQSLQEIWYVVRPN LRLIGVPESDVENGTKLENTLQ DIIQENFPNLRQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MKEKMLRAAREKGQVTLKGG PIRLTADLSAETLQARREWGPIF NILKEKNFQPKISYPAKLSFISEG EIKYFIDKQMLRDFVTTRPALK ELLKEELNMERNNRYQLQNH
6499	36867	A	6549	1	767	MAGAPPASLPPCSLILDCCASN QRDSVGVGPSEPGVGYSLVVR RFLSRSEKRNIRVGVTFRSSEM NPVPQMEMQKSPSSASLTLGA VDRSCSYSAILAPPLGFCFYPLY ENSTLQSAKKRDAELANGALGI IELNNDYTLKKVMKPLITSNTV TDEIERANVFKMNGKWYLFDT SRGSKMTIDGINSNDIYMLGY/D IKLFNRPLQAAEQNRACAANGS *SKRCDIHLLSLRSAASQRQQC GYHKLHDKQRLLRG
6500	36868	B	6550	50	327	
6501	36869	A	6551	333	1301	FLHFHLRNAVPHQQWKNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELTKARELR EECRSLRSCDQLEERISVMED EMNMKREGKFRKRIKRNEQ SLQEIWYVVRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGGPIRLTADLSA ETLQARREWGPIFNILKENNFQ PRISYPAKLSFISEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLQNHAKF
6502	36870	A	6552	352	2304	
6503	36871	A	6553	1	1617	

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6504	36872	A	6554	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAFQPGQQSETVSEK KKKTRKKRKKRKKRKKKKKK KKKKKKKKKKKKKKKKKKKK SE*DRLGKKEEDEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE
6505	36873	A	6555	5	156	RKKGGG/EREEEGEEEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH
6506	36874	A	6556	1	279	
6507	36875	A	6557	3	120	TEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEVEEEEE
6508	36876	A	6558	3	123	
6509	36877	A	6559	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHVRGI
6510	36878	A	6560	1	588	
6511	36879	A	6561	1	204	
6512	36880	A	6562	75	234	
6513	36881	B	6563	100	2510	
6514	36882	A	6564	47	4976	
6515	36883	A	6565	3	4755	SCRCRRRRRGAPAMAQILPVR FQEHFQLQNLGINPANIGFSTLT MESDKFICIREKVGEQAQVTIID MSDPMAPIRRPISAESAIMNPAS KVIALKAGKTLQIFNIEMKSKM KAHTMAEEVIFWKWVSVNTV ALVTETAVYHWSMEGDSQPM KMFDRTSLVGCQVIHYRTDE YQKWLLLVGISAQQNRVVG MQLYSVDRKVSQPIEGHAAAF AEFKMEGNAKPATLFCFAVRN PTGGKLHIEVGQPAAGNQ
6516	36884	B	6566	47	482	
6517	36885	A	6567	1	555	MNARPHKVD/GRVVEPKRAV* EDSQRPAFVAGIKEDTEHHLR DYFQQYGKMEVIEIMTDRGSG KKRGFAFVTFDNHDSVDKTVV QKYHTANDHNCGRKALSKQE MASASSQRGHSSSGNFRGGHG GGFGGNDIFGYGENFSGHGGFS GSCGGGGYGSSGGGYNEFGND GSNTGGGGSYNDFGN
6518	36886	A	6568	1	645	

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6519	36887	A	6569	2	944	GRGLRKLFIGGLSF*FIDESLKS QVGEWGTLTDCVVMRDPNTK RSRGFGFVTYATVEEVDAAMN ARPHKVDGRVVEPKRAVSRED SQRPGAHI/TLVKKIFVGGIKED TEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFA\FVTFDDHDSV DKIVIQKYHTVNGHNCEVRKA LSKQEMASASSSQRGRSGGNF GGGRGGGFGGNDNFGRGGNFS GRGGFGGSRGGGGYGGSGDGY NGFGNDGNSFGGGGSYNDFGN YNNQASNFPGPMKGGNFGRSS GPYGVGGGQYFAKPR\NQQGY GGSSSSSYGSGRRF
6520	36888	A	6570	1	1512	
6521	36889	A	6571	2864	3677	RCQLDHLPCHLCCCCHR/CIPSL RDPQQAPGSTRLSRAPHIESRV GRKPPEEPANPTMNSLTLRDQK /HDASTC/DWKRAL*VPESGLPR ALLKYIRCPNMSSAQKPRELSK RRN*K*PCVKRTPFRPT*E/DLP YSGKKTGVKGLICVPVGTAVK APQRPPGPQQPHAPQSASETA WFPVADRRVFSENPGWTA AKT LGTLSGPCQAGAGVGRQDGDGP GQELTSQEKPWVGRKIPEHAV ADKGYRQQCGAGEARGGPVF WAAAPRTSWQQASYT
6522	36890	A	6572	1	666	
6523	36891	A	6573	2926	3304	EYSLGHRHYNWKC*ALGQKDQ VTFATKFAPTSRTRKQPELWR /QDPGSYGEKQPAWCSVPPGRF SGLLVGLGLDGGIVVQPLRRP CCQDCVCGFPTLRSSTKTSTEL GPSFLPCERQGGKETISVT
6524	36892	A	6574	1	665	

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6525	36893	A	6575	3	1121	SSTFPRMPWRLVTSWTAYIPEL EGSTSDPDSPAVAQKGEKPVKL GNSLWGSHTPEVPRPGTGPRPL SFVHRLPTMDPHKVNALRAFV KMCKQDLSVLHTKEMHFLRE WVESMGGKLSPATQKVKSEEN TKEEKPDSKKVEEDLKADEPSS EESNLLIDNEDVIEPDPAQEM GDENAEITEEMMDQANHKKVA AIEALNDGELQKAIDLFTDAIKL NPQLAILYAKRASVFIKLQKPN AAIRDCDRAVEI\SAQPYKWR/ GKYEQKREEREIKERIERVKKA REEQERAQREEEARGQSVAYQ GSFPDGLPGGMLEMRGGMPGK PGITGLNEIFSDPEVLAADVQDPK VMV/AFFQDVAQNPNMSQYQ GNPKVM
6526	36894	A	6576	3	1351	PEAGGERERERAQREEDSTRQS RAQYGSFTGGFPGGMPGNFPG GMPGMGGPSARSRAQRSLSE PDRSPPSYAHHLPTMDPRRVNE LRAFEKMCKQDPSVLHTEEMR FLARECVESMCGKVPPATHKAM SEENTTEEKPDEKAEEDLQAD\ EPSSEESDLRKLIEGVIEPDTD APQEMGDENAEIPEEMMDQA NDKKVAAIEALNDGELQKAIDL FTDAIKLNPRLAILYAKRASV VKLQKPNAAIRDCDRAIEINPD SAQPYKWRGKAHRLLGHWEE AAHDLALACKLDYDEDASAML KEVQPRAQKIAEHRRKYERKR EEREIKERIERVKKAREEHERA QREEEARRQSGAQYGSFPGGFP GGMPGNFPGGMPGMGGMPG MAGMPGLNEILSDPEVLAAMQ DPEVMVAFQDVAQNPNMSK YQSNPKVMNLISKLSAKFGGQ
6527	36895	A	6577	2	433	GPPLNLSSPRGGILKTYGCELCG KRFLDSLRLRMHLLAHSAGAK AFVCDQCGAQFSKEDALETHR QTHGTDMAVFCLLCGRFQA QSVALQQHMEVHAGVRSYICSE CNRTFPSHTALKRHLSHTGDH PYECEFCGSCFRDE
6528	36896	A	6578	1	687	
6529	36897	A	6579	2	449	

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6530	36898	A	6580	852	1084	TDAGCYAARQCGTAVPSRDV HIRHQGTPVPQF*TAPLRARS/E VSPARRRARM LSSASFASANIT TSSAWSDTLQP
6531	36899	A	6581	1	681	
6532	36900	A	6582	1	483	
6533	36901	A	6583	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
6534	36902	A	6584	1	678	
6535	36903	A	6585	3	634	
6536	36904	A	6586	4	479	CSAKTAIRGVSECLIHGHPHS TASDQGTHFTAKEVWQWAYA HGIHWSYHVLHHPEEA/GKER WNGLLKSQ LQCQLGDNTLQG* GKVLQQA VYVLN*HPIYGT VSP IARIH/GSRNQG/VETELTPLTITP SDPLAKFLLPVPPTLHSAGLEIL VPEGEIR
6537	36905	A	6587	1	1539	MVGKAKWKPLELPLPRKMVSQ KQYRILGGTAEISVTIKDLKDA RVVIPSTSPFYSPWPVQKIDGS WRMTEDYRKLNQVVTPTAAA VPDVVSLLEQINTSPGTRYAAID LTNAFFSIPFHKAHQKLFAFSW QGQQYTFTVLPWGDINSPALCH NLIRRDPCFSLPDITLVHHID DIMLTGSREQEVADTRDFLVKD KLLHLAPPTTKKQAQHLVGLF GFWRQHIPLLGVLQPIYRV TQ KVASFEWSQEQKTALQQVQAA VQAVLPLGPYNPADPMVLEVS VADRDAVCSLWQAPIGESQWR PLGFWSKALPSSADNYSPPERQ LLA/CHKVGHAQQHSISKWK*Y IHDRAQADYHPWTQACLIHCQ GIPHSIASDKDAHFTTKEVWQW THAHEIHWCYHVLHHPEAAGL TERWNRLLKSQ LQRQLGDNTL QGSGKVLQKAMYALNQHPYIG TISPIARIHGSSNQGVEVAPLTIT PSDPLAKFLLCVPTTLRSAGLD VLVPEGGMTQQQFH

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6538	36906	A	6588	1	566	MGRNQSRKAENSKNWSASSPP KDHSSLPAMEQSWMENDFDEF TEVGFRRSVITNFSELKEHVLTY CKEAKNVEKRIYRSRNQGM EV KVAPLTITPSDPLANFFASVPAT LHSAGLEVLVPEGGTLPLGDTT MIPLNWKLRRLRTGYFGLLLRLS QQA KKGAMVLA/GVVD PDYQ NEISLLLHN*GKTHDH
6539	36907	A	6589	221	357	
6540	36908	C	6590	228	342	
6541	36909	A	6591	745	849	
6542	36910	A	6592	1	240	
6543	36911	A	6593	2	495	FVRLVGRGDCDPLLSVCLTTMP LYEGLGSGGEKTA VVIDLGEA FTKCGFAGETGPRCIIPSGIKRA GMPKPVRVVQYNINTEELYSYL KEFIHILYFRHL LVNPRDRRVV IIESVLCPSHFREDTHSCFFKY FEVPSVLLAPSHLMALLTLGI NSWHGPRL
6544	36912	A	6594	1	579	
6545	36913	A	6595	1	621	
6546	36914	A	6596	1	351	
6547	36915	A	6597	1	447	
6548	36916	A	6598	114	880	
6549	36917	A	6599	1	2625	
6550	36918	A	6600	1	1674	
6551	36919	A	6601	1035	2235	QTHSQYHTEWAKTGSIPFENW HKTGIPSLTTPIQHSVSGSQGN QAGEGNKGYSIRKRGSIQVPVC RRHD/VYI*KTPLSQPEISLS**A TSAKS/LGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAIPIKLPM PFFTELEKTTLKFIWNQKRARIT KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLD PFLTPYTKMNSRWI KDLNVRPKTIKTLEENLGITIQD IGMGKDFMSKTPKAMATKAKI DKWDLIKLSFCTAKETTIRVN RQPTK

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6552	36920	A	6602	369	1917	AGEKNGKYSIRKRGSIQIVPVC RHD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQTFLYTN NRQTESQIMSELPFTIASKKIKY LGIQHTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FTELEKTTSKFIWNQKRARITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYLYQNRDIDQWN RTEPSEMTPHTYNYLIFDKPEK NKQWGKDSLFFNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPKKWEKIFATYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKCS SSLAIREMQIKTTMRYHLTPVR MAHQKSGNNRCWRGCGEIGTL LHCWWDCCLVQHILTHRWE NNEITWTQEGEYHTLGTVVGW GEGGGIALGDIPNAR
6553	36921	A	6603	1	2781	

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6554	36922	A	6604	1320	2403	LQTLQVYSNQNSMVLVLPKQR YRSMEQNRALRN NATYLQLSD L*QT*EKQAMGKGFP**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NSKKQSPSP PPKERSSSPATEQSWTENDFDE LREEGFRRSNYPELREDIQTGK KEEIQTIREYYKHL YANKLEN LEEMDKFLNTYTL PRLNQEEVE SLNRPITGSEIVAVINSLPTKKSP GPDGFTA EFHQRYKVELVPFLL KLFQSIEKEGILPNSFYEASIILIP KPGRDTIKKENFRPISLTNIDAKI LNKILANRIQQHIKKLIHYDQV GFIPGMQDWFNIRKSINVIQHN RTKVKNHMIISIDAEKAFDKIQ QRFMLKTLNKL AQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRLNIVK MAILPKVIYRFNAIPKLPMTFF TELEKTTVKFIWNQKRACITKSI LSQKNKAGGITLPDFKLYYKST VTKTAWY WYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKLEENLGITIQDIGV DKDFMTKTPKAMATKPKIDKW DLIKLSFCTAKETTIRAFDELD DVHPHEEIEACRVWQNYGTHP
6555	36923	A	6605	2202	2515	KSLQCEHSSHQDLPLACLGLR KHYMVAQYL*HSHS/ASGGGSR YDVLKISVSCSSTIDI*LA FVSLG *DKRTS**TNLAESSPNFFHWV WIFLASKKFCVSPAR
6556	36924	A	6606	1934	2077	AIPFRIQAWARTSCP KHKKQWQ QKPKLTNGI*FN* RASAQQKKL PSE
6557	36925	B	6607	1	2325	

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6558	36926	A	6608	1524	2877	IRKRGSQIVPVCRRHD/VFV*KT PSSQPKISLS**ATSAKS/LGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFTELEKTTL KFIWNQKRARIAKSILSQNKKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQCNRTEPSEIMPH IYNYLIFDKPERNKQWGKDSL NKCWCWENWLAICRKLKLDPF TPYTKINSRWIKDLNVRPKTIKT LEENLGITIQDIGVGKDFMSKTP KAMATKDKIDKWDLIKLSFC TAKETTIRVNRQPTTWEKIFAT YSSDKGLISRIYNELKQIYKKKT NNPIKKWAKDMNRHFSKEDIY AAKHKMKCSSLAIRERQIKT TMRYLTPVRMAIHKSGNNR DMDEIGNHHSQ
6559	36927	A	6609	1	2226	
6560	36928	A	6610	1	674	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNEKCLK ELMELKTKARELREECRLSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGKLE NTLQDIIQEN/CPQSSKAGQRSD SGNTENATKILLEKSNSKTHNC QIHQS
6561	36929	B	6611	1	5175	
6562	36930	A	6612	1666	2032	LQTIQGYNSQNSMVLVPKQR YRSMEQNRALRNNATYLLQSD L*QT*EKQAMGKGFP**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKH*T*NHKNPRRKP RHYHSGHRHGQGLHV
6563	36931	A	6613	1596	2169	AGEGNGYISIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMFT FTELEKTKVHMEPKKCPHHQG NPKPKEQSWRHHTT

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6564	36932	A	6614	1667	3103	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTERQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLQE IKEDTSKWKNVPCSWVGRINIV KMAILPKVIYRFNAIPIKLMPF FTELEKTILKFIWDQKRARIKS ILRQKNKAGGITLPDFKLYYKA TVTKTAWYWYQNRDIDQCNR TEPSEITPHIYNYLIFDKPEKNK QWGKDSL FNKWCWENWLAIC RKLKLPFLTPYTKINSRWIKD LNIRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATNAKIDK WDLIKLSFRTAKETTIRVNRQ PTKWQKIFATYSSDKGLMSRIY NELKQIYKKKTNNPIKKWAED MNRHFSKEDIYA AKKHKMKCS SSLAI REMQIKTTMRYHLTPVR MAIIKKSGNNRLTLLNNHNNPQ PLISIKEPREKEELNLQV
6565	36933	A	6615	3134	3288	
6566	36934	A	6616	1	2630	
6567	36935	B	6617	877	7936	
6568	36936	A	6618	2	1589	
6569	36937	A	6619	1	240	
6570	36938	A	6620	200	486	
6571	36939	A	6621	1	558	
6572	36940	A	6622	1	3885	

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6573	36941	A	6623	1	2302	KLPVTNRAAHGLCASLGPDFM TFKVPSSWRHSDSICREWFTLA GAPSRDVLLVSAIITVLSVTVV LCGLCHWCQRKLGKRYKNSLE TVGTPDSGRGRSEKKAIVSRP CPPPAKASATHPTCKSPRSQEK VESPGDLDRDFWNNNESTVQQ KWSSYPPKEFILNISPYAPYGDP RLSLNGTLLSGAKVAAAAGLA VEREGRLGKPPVPPPGEDAL RSGGAAPSEPGSGGKAGRGRW RTVQSHLAAGKLNLSNFEDSTL STATTLESIPSTGEPKCQRPR LMRQQSLQQPLSQHQGRQPS QPTTSQSLGQLQAHMASAPGP NPRAYGRGQARQGTSAAGSKYR AAGGRSRNPGSWDHVVGQIR NRGLDMKSFLTSSRAAKWNF TNSETVPALDLSAVVLIPWISS KEDTGDSHYGRVAIYHKGLSFS SDGLVYPGAKGREGRMVVLSL VLGLSEQDDFANIPDLQNPQTQ QNQNAQGDKRLPAGGKAVNT APVPGQTPHDESDRTEPRSSV SDLVNSLTSEMLMEDWPPAVF SSGWAIAATAHPASLHSPHIGYSF LAARGGLLLFEADFCWCKRSG STFPDCDGVANLAATEMALSQ LRFSKETAMRESLVMLSPGSEE DEAHEGCSRENLGRIQFSVGYN FQESTLTLKIMKAQELPAKDFS GTSDPFVKIYLLPDKKHKLTK
6574	36942	A	6624	1	576	
6575	36943	A	6625	1	155	
6576	36944	A	6626	4746	5258	DAGAQPSPRYLIYHQPSRFFRI TSTVTPFSKPISSLLWL*/GLHG DILL/RLLQS*RC*CRSHPEYHSG PPGRWQGPSPAPQKCSRTTSRS RSSR*HPPPPRPGGSAPSSPASYS WTPPRTVPGSWARRWRRHLSR PSWATQPSWTATLWSQPLWRL KWEDCLSPGRSRLQ
6577	36945	A	6627	1	588	

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6578	36946	A	6628	444	1056	GPLLREPHQLCHFVAGFVLDA GLPEAAAAPHDRGPPELAGPQA AGQHPAQVAHQPRAAAQQRQ GRRAREEAGAQAQEEPRGPQE RRRRLAEGLRRCGHPAGR DG RGGYRRAAQGPARGGRTPEWQ QSGGARRTPSVGHPRRARAD\W CLTGANDALSCSSPTCGKFLKT VSKVPVCRRGLAVNRKEAAGR SSESPTSSATFQSPALSWMLVS QRLLLPHMIGAQSSPGPKRPGN TLRKWLTSPVRRLLSSGKADGH VKKLAHKHKKSREVRKSADAG SQKDSDDSAATPQDETVEEDTV AQPRGRREGAGRQSGSRAAGP GRRASAIRGGHARTDVGKRN GTRTRKELMPLHGKRKDAAEH DEPTSASRPAGERPELTAAVQ TEYNCSFPS
6579	36947	A	6629	128	1103	
6580	36948	A	6630	1	602	
6581	36949	A	6631	3	1618	
6582	36950	A	6632	1	602	
6583	36951	A	6633	3	1618	
6584	36952	A	6634	1	912	
6585	36953	A	6635	195	396	VLPLHRQI**LLH*SKKHNYK GKQQDLR/CSSTVPRRPQGILPII SFSNVPVGSRRLLKAPLVFIGPG

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6586	36954	A	6636	2	1813	FNTPLSTLDRSSRQKVNKDIQD VISALHEAGLIDIYRTLHPKSTE YTFFSAPHHTYYKIDHIVGSKA LLSKCKRTEITTNCLSDDRAIKL ELRIKKLTQNYTTTWKLNLL SDYWVNNEMKAEIKMFFETNE NKDTMYQNLWDTFKAVCRGK FIAVNAYKRKQERSKIHTLSQ LKEPEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKISVSRSW FSERINKIDRLIARLMKKKREK NQIDAIKNDKGDITIDPTMQTT IREYYKNLYANKLENLEEMDK FLDTYILPRLNQEEVELPNRPIT GSENEAIINSLP/TKKSPGPDEFT AKFYQRYKGLARAIRQEKERE DTQLGKEEVKLLFAEDMIVYL ENPIVSAQNLLKLNNFSKVSGY KINVQKSQAFLHTNNRQTESQI MSECPLTIASKRIKYLGIQLTRD VKDLFKENYKPLLNKIKEDTN KWKNIPRSWLGRNNIVKMTILP KVI/YKKTTLNFIWNQERARIAK TILSKKNKAGGITLPDFKLYYK ATVTKTARYWTLTIKKGSVWPI SLKSEKRGHRTPLWKLCHND VQGELLKTIQFLFGSPLGHSSLD
6587	36955	A	6637	1	2988	MPPHSEQHPSPSTRQKRKVPLF VRQCPSFVIQAPKAKMDTFDGR KKQFTRFLFLFSMDQLGQGRFS MQTLSFALAVYRKDSPLVACQ VQALGNLEPSSVEAHVSSHGIAI DRKGWHVSLFSIQPGDCFPKAL VEDSPRDRARRQQSSKEEGWC RDRRLKFHKKGAAAIIVKS KKYESPSFGVCFESLLNPPRLTS RREKTISSSKRCRQCHAEETTV VFWAKESQTGEQTGRGAGQRR MGMIICKACSMPLPAE
6588	36956	B	6638	362	1463	
6589	36957	A	6639	1	1061	
6590	36958	A	6640	1	1581	

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6591	36959	A	6641	46	862	AAFPAPRTLFFLSRPLRPTACAA FRPEFWRLNMKLPARVFFTLGS RLPCGLAPRRFFSYGKILYQN TEALQSKFFSPLQKAMLPNSF QGKVAFITGGGTGLGKGM TTL LSSLGAQCVIASRKMDVLKAT AEQISSQTGNKVHAIQCNVKYP DMVQNTVSELIKVQGH PSTVIT N*STERSSISFLLPTIYA*DWFRF CSTQVLLPKQVWKPMSKSLAA EWGKIWNAIQC
6592	36960	A	6642	1	2902	MVKGSLQQEELTILNIYAPNTE APRFIKQVLRDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKINKD TQELNSALYQADLIDIYGLHP KSTNEYTFASAPHHTYSQNWTT IVGSKALLSEHKRTEIITNYLSD VHSAIKLELRIKLTQNRSATW KLNNLLNDYWVHNDMKAEI KMFFETK\ENK\DTTYQNLWDT FKA VCRGKFIK\NAHN RKQE\ RSKIDTLTSQLKELEKKEQTYL KASRRQEIT
6593	36961	A	6643	1	5127	
6594	36962	B	6644	1	3570	
6595	36963	A	6645	1	3663	
6596	36964	B	6646	143	3122	
6597	36965	A	6647	1	3235	
6598	36966	A	6648	1	3249	
6599	36967	A	6649	1	3297	

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6600	36968	A	6650	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPTGAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRAHITSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKCSSLAIREMQUI KTTMRYHLTPVRMAIHKSGNN
6601	36969	A	6651	1	3402	
6602	36970	A	6652	1	3288	
6603	36971	A	6653	1	3168	
6604	36972	A	6654	1	3516	
6605	36973	A	6655	1	3693	

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6606	36974	A	6656	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPSPGDVGLEADFSPSH TLKTQFFSCLAEFAAASCFQR MNGFGMAMTTTSTGAAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWL RPTSHLPPCSSSSAWW TEQTD AHP LLFLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCF TT VTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASV VYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
6607	36975	A	6657	1	3514	MELKTKARELREECRSLRSRCD QLEERV SAMEDEMNEMKREG KFREKRIKRNEQSLQEIW DYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRT PQRYSLRRATPRHII VRFTK VEMKEKMLRAAREKDRSTROK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELR IKNLT KSRSTTW KLNNLLNDYW
6608	36976	A	6658	3	3316	
6609	36977	A	6659	1	4794	
6610	36978	A	6660	1	3570	
6611	36979	B	6661	1	3384	
6612	36980	A	6662	1	3429	
6613	36981	A	6663	1	3780	
6614	36982	A	6664	1	3894	

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6615	36983	A	6665	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKIETQ
6616	36984	B	6666	1	3145	
6617	36985	A	6667	1	4398	
6618	36986	A	6668	523	3852	
6619	36987	A	6669	1	3934	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERSVAMEDEMNEKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
6620	36988	B	6670	1	5215	
6621	36989	A	6671	1	7171	
6622	36990	A	6672	3	493	
6623	36991	A	6673	1	729	
6624	36992	A	6674	3	800	
6625	36993	A	6675	1	327	
6626	36994	A	6676	2	462	KSSWLEEDDDPVVARVNRRMQ HITGLTVKTAELLQVANYGVG GQYEPHFDFSRPFDSGLKTEG NRLATFLNYMSDVEAGGATVF PDLGAAIWPKKGTA VFWYNLL RTGEGDYR\TRHAACPVLVGCK WVSNK\WFHES\GQEF\LRPCGST EVD

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6627	36995	A	6677	3	717	RHRLRNRLKDVGGGEAFYPLLE DDQSNLPHSNSNNELSAATLP LIIREKDTEYQLNRILFDRLLKA YPYKKNQIWREARVDIPPLIRG LTWAALLGVEGAHAKYDAID KDTPIPTDRT/QLKWDIPRCHSV R*TVIHAPEGHAKFRRVLKVAW VVSHPDLYVWQGLDSLCAFL YLNFNNEALVYACMSAFIPKYL YNFFLKDNSHVIQEYLTVFSQM IAFHDPELSNHLNEIGFIPD
6628	36996	A	6678	1	508	
6629	36997	A	6679	1	888	
6630	36998	A	6680	2	584	
6631	36999	A	6681	2	152	QVAKGMDALLQHLEDCGYR/S SKKKAQICRQVTKWGDGSAL MGTSTTASL
6632	37000	A	6682	733	894	
6633	37001	B	6683	1	1626	
6634	37002	A	6684	1	1971	MAQVWANDNPPGLAVNQAPV LIDVKPGAQPIRQKQYPVPREA LKGIQPGTKDYQPVDLRLVN QATVTLHPTVPNPYTLGLLLA EDSWFTCLDLKDAFFSIRLAPES QKLFAFQWEDPQSDLGICILLY VDDLLLGHSTAVECAKGMVDL LQHLEDCRYKMSKKKAHICRQ QVRYLGFTIRKERSWEREKM AVGVLTQTVGPWPRPVA YLSK QLD/EVSKGWPLCLRTLAATAL LAQEADKLTGQNLNIKAPHA VVTLMTEGHHWLTNARLTKY QSLPCENPHITIEVCNTLNPTTL LPVSESPGEHNCVEVLDSVYSS RPDLRDQPWASSVDWEL YMD GSSFINSQGERCAGYAVVTLDA VIKAKLWLQGTSAQKAELIALT RAVELSEGQESLEELLGRYFYV SHLPFAKAVAQLCITCRQHNA RQSPTVSPHIQAYGAAPFEDLQ VDFTEMPKCGGNKYLLVTCT YSGWVEAYPTRTEKPYKKGKN DPSCTKGQCNPLELVITNPLNP HWKKGERVTLGIDRARLDPRV NILVRGGEVYERSPEPVFQTFY DELNVPVPEIPGKTRNLFLQLA ECVAQPLNVTSCYVCGGTVTG YQWPWKARELVPVDPVPDEFL AQKNYPDNFWVLKPSITGQYCI
6635	37003	A	6685	1	1461	
6636	37004	A	6686	1	1005	

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6637	37005	A	6687	1	174	
6638	37006	A	6688	519	588	
6639	37007	A	6689	2	4527	GRAGLGWSSGGRGRACSEGP AEARGREGDKGSAALSPPLPLT LGEEMAAERGARRLLSTPSFWL YCLLLLGRRAPGAAAARSGSAP QSPGASIRTFTFPFYFLVEPVDTL SVRGSSVILNCSAYSESPKIEW KKDGTFLNLVSDRRQLLPDGS LFISNVVHSHKNKPDEGYQCV ATVESLGTIISRTAKLIYAGLPR FTSQPEPSSVYAGNNAILNCEV NADLVPFVRWEQNRQPLLLDD RVIKLPSGMLVI
6640	37008	A	6690	1	879	
6641	37009	A	6691	407	594	
6642	37010	A	6692	1	3621	
6643	37011	B	6693	1	609	
6644	37012	B	6694	1335	1599	
6645	37013	A	6695	1	354	
6646	37014	A	6696	181	683	SRYFILLRKPTFPAMALLPVLF VTVLLPSLPAEGKDPAFTALLT TQLQVQREIVNKHNELRKAVSP PASNMLKMEWSREVTNAQR WANK/CTLQHSDPEDRKTSTRC GENLYMSSDPTSWSSAIQSWY DEILDFVYGVGPKS/PQYCPAG NNMNRKNTPYQQGTPCPG
6647	37015	A	6697	199	969	
6648	37016	A	6698	1	564	
6649	37017	A	6699	153	427	
6650	37018	A	6700	1	978	
6651	37019	A	6701	3	419	
6652	37020	A	6702	9	255	VRAPAQGPDLAGRRRCGSGA SCTPSRGPASWSRSAAQVPRS SRWRAGSASS*/N/GRQPAPPTSQ PPRAQPFAQPPGPWPLS
6653	37021	B	6703	96	283	
6654	37022	A	6704	172	365	PTYHLYPCHFVYQHRTRRIPRK SERLFPTPPQLSWKGTWDY*I CLLCCNDSEGRDFLVLRVLK
6655	37023	A	6705	3	1171	
6656	37024	A	6706	2	740	
6657	37025	A	6707	256	461	
6658	37026	A	6708	1	414	
6659	37027	A	6709	1330	1386	YIDSILPK*NHDTLQSYCRYM\H SRQRAAS*PLSTGKLQOCLGLD LVLC

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6660	37028	A	6710	207	1173	GGDRDRMTANHESYLLMASTQ NDMEDWVKSIRRVIIIGDLSGGG IFGQKLEDTVRYEKRYGNRLAP MLVEQCVDIFIRQRGLKEEGLFR LPGQANLVKIELQDAFDCGEKP SFDSNTDVHTVASLLKLYLREL PEPVIPYAKYEDFLSCAKLLSKE EEAGVKELAKQVKSLPVVNYN LLKYICRFLDEVQSYSGVNMMS VQNLATVFGPNILRPKVEDPLTI MEGTVVVVQQLMSVMISKHDCL FPKDAELQSKPQDGVSNNEIQ KKATMGQLQNKENNNTKSDPS RQCSWDKSESP/TEKQHEQWIP HSSIRQQNQPKQEQWSQAI
6661	37029	A	6711	173	881	
6662	37030	A	6712	1605	1844	
6663	37031	B	6713	123	699	
6664	37032	A	6714	1	462	
6665	37033	A	6715	1	2607	
6666	37034	A	6716	1	918	
6667	37035	A	6717	1	549	
6668	37036	A	6718	1	687	
6669	37037	A	6719	1	258	
6670	37038	A	6720	90	1621	HGLDLRTMNRSRQVTCVAWV RCGVAKETPDKVELSKGGVVKR LIAEAEKLEEGGGSDEEKTG SPLEEGMQSARTQARP/REPLE\ DGDPE/DRTLDDDELAEDLD KYDEEGDPAETLGAESLLGLT VYGSNDQDPYVTLKDTEQYER EDFLIKPSDNLIVCGRAEQDQC NLEVHVYNQEEDSFYVHHDILL SAYPLSVEWLNFDSPDDSTGN YIAVGNMTPVIEVWDLDIVDSL EPVFTLGSKLKSKKKKKGKKS SAEGHTDAVLDSLWNKLIRNV LASASADNTVILWMSLGKPA ASLAVHTDKVQTLQFHPFEAQ LISGSYDKSVALYDCRSPDESH RMWRFSGQIERVTWNHFSPPH FLASTDDGFVYNLDARSDKPIF TLNAHNDEISGLDLSSQIKGCL VTASADKYVKIWDILGDRPSLV HSRDMKMGVLFCSGCCPDLPI YAFGGQKEGLRVWDISTVSSV NEAFGRRLVVGARSNSISGP FGSRSSDTPMES
6671	37039	A	6721	1	549	

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6672	37040	A	6722	1	1318	AKQQLNLRTHMADENKNEYA AQLQNFNGEQHKHFYVVIPQIY KQLQEMDERRTIKLSECYRGFA DSERKVIPIISKCLEGMILAAKS VDERRDSQMVVDSFKSGFEPPG DFPFEDYSQHIYRTISDGTISAS KQESGKMDAKTTVGKAKGKL WLFGKKPKPQSPPLTPTSLFTSS TPNGSQFLTFSIEPVHYCMNEIK TGKPRIPSFRLKRGWSVKMG/ AALEDFSHLPPEQRRKKLQQR DELNRELQKESDQKDALNKMK DVYEKNPQMGPGLQPKLAE TMNNIDRLRMEIHKNEAWLSE VEGKTGGRGDRRHSSDINHLVT QGRESPEGSYTDDANQEVGRPP QQHGHNEFDDEFEDDDPLPAI GHCKAIYPFDGHNEGTLAMKE GEVLYIIEEDKGDGWTRARRQ NGEEGYVPTSIDVTLEKNSKG
6673	37041	A	6723	1	741	
6674	37042	A	6724	1	1063	MPFYISDLSICGDRILRALCPQD LPTYSLHSRGKMRASCSRKFLD NNSSRLVSCNMGALISIWGTTT PPLHATILDSQPTVHPPLAKDCL PCGLQASASDLRARALQRLCQ QLPWVGSQPHTRSPSPQRGGKT GLFAGLASSVSMRPASPPSPAA DSCSACRFFARRPPLRVTVWKP SSALALCVSISDSIPGNLKA LPAETRAQLHHAELASLQPPQLRP FPKTSQAGDLQDLGPYVCVRK AVGKGDQIRAVVKEHSVRSQ ERLWHYPGITTANMPGHLGQNT ESGRDKLPMFGVWFPGRFWG LWVWRLP*LKLAAPCRPSRLR SSPISRRASTTRCLTVSGCPAAP
6675	37043	A	6725	25	573	
6676	37044	A	6726	1	483	

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6677	37045	A	6727	1	996	MVGKAKWKPIELPLLRKIVNQ KQYHIPGGVAKISATIKDLKDV GVVIPTTSPFNSPIWPVQKTDGS WRKWLS*QGQQT/FTVLPHG YINSLALCHNLIRRDLDHFSLPQ DITLVHYIDDIVLTGSSEQEVAN TLDLLTSLDWALVETECLTMG HQVTMQPELTIMNWALSDPSN YKVGCAQQHSIIKWKWYIRDQ ARAGTTCKWTAAALQPLSRTS LKDSGERKSSQWAE LRAVHLI MHFAWKEKWPDVQLYTD SWA VANGSAGWSGTWKNHWDWKIA TTVIAQWAHEQSSHGSRNGGY TWAQQHGLPLTKADVATATDE CPICQQQRPTLSP
6678	37046	A	6728	2	1380	CLAGLFGFWSPCIPHLGVLLQSI YLVTQKAA/SSEWGPEQE KALQ EVQAAVQAALILEPYDPAGPVV LEVSLADRDAVWSLWQAPIGE SQQRPLGFWSKALPSSA/DHKA CHAQQHSIIKWKWYIHDRARA GPEGTNSSARYAATM*KWTAS ALQPLSRKSLKDSSE GKSSQWA ELRAVHLAVHVAWKEKWPDV RLDTSWAVANGLARWSGTW KEHDRKIGDKEVWGRGTRIELS EWSKTVTIFVSH/VLLPRLPSIRG LTECLIHQHGIPHSIASDQGTHF TAKELQQWAHAHGIHWSYHVP HHPGWGKVLQKAVYALNQRP IYEWKEESCLHTGVADALRGN WAEGHREHKALWLGLWSTWS QHPLRSLKTTRHHPGLGVLS ICEAGGATEELSRASGFATGYG KRKEDTKKHKQHSVSDIIEQQH SLGLTEKTVKGTPQTQGISMRPG LYHKATEFQE
6679	37047	A	6729	1	2229	
6680	37048	A	6730	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLP GDPKHHCG PPVKVGAYGGQVINGVLA/HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLL EQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQQGQYTFTVLP QWYINSPALCHNLIRRDLCFS LPLDITLVHYIDDIMLGISSE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ

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6681	37049	A	6731	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLAQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWKYVH DWARAGPEGT
6682	37050	A	6732	3	266	
6683	37051	A	6733	3	582	
6684	37052	A	6734	3	403	
6685	37053	A	6735	1	2712	
6686	37054	A	6736	875	1506	LSIYLVLTQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQHSHKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6687	37055	A	6737	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQQQ DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
6688	37056	A	6738	2	1103	DLWPFTRVTLHRGKRNDQTFQ GLLDTGSELMLIPEDTKHHCGP PVKVEAYGGQVINGVLAQIQLT VGPVGSNGTHPVVIYPVPECIIGI GILSSWQNPHIGSLTSRKTDGS WRMTVHYHKLNQMVTPIAAAI PDVVSLLAQVNTSPGSWYAAID LANAFFIPVHKAHQKQFAFSW QQQQYTFTVLPQWYINSPALCH NLIRDLDCFSPLDITLVHYID DIMLIGSSEQEVANTLDFVRH LRARGWEINPTKIQGPSTSVKFL GFQWCGACQAIPSKMRDKLLH LVPPTTKKEAQL\QLLACY/W ALVETEHLTISHQVTMRPELP IMNWVLFDPSSHKVGCAQQHSII KWKYVHDWARAGPEGT

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6689	37057	A	6739	1	2058	
6690	37058	A	6740	2	1173	WEVRQYTFTVVPQGHINSLVLC HDVVRRDLGHFFLPQDITLVHY IDDIMLIGSTPPITKKKAQHLVG LFGFWRQLVPHLGVLWPYQ VTQQAASFEGPEKEKALQQV QAAVQAALPLGPYDPADPMVL EVSVADRDVWSLWQDPIGES QWRSLGFWSKALPSSADNYSPP ERQLLACYWVLVETERLQWV TPAEEDFNNQVDRMTHSVDTT QPLSPATHVITQWAHEQSGHG GRDGGYTRVQQHGLPLTKADL ATAGKVFQKAV*ALN*HSIYGT LSLIARIHRSRNQGVVEVAPLT ISPSDPPAKFLLPVPTLRSAGLE FLVPEEGMLPSGDTTVPLNWK RLPPGHFGLLPLHQQANKGVT VLVGVTDLDYQDEISLLPHNG
6691	37059	A	6741	823	2487	KELKLWKNRHKLLSYPTVGAA VTQLQNLTAMGVIGSHGARGQ VVALNRQRQGDLPFTRVTVH WGKG/NMQIFGGLDGTSELTL IPGDPKHHCGRPVPKVGAFGGQ VINGALARVQLIVGPVGPWAHP VVISPVPECIIDIILSSWQNPHIS SLTGRVRAIMVGKAKWKSLEL PLPRKIVNQKQYHIPGGIVEISA TIKDLKDAGEVIPTTFPLNSPI WPVRKTDGCWRMTVDYCELN QVVTPTAATVPDVVSLLEQINT SPGTWYADIDLANAVFSIPVHK AHQKQFAFSWQQQYTFTVLP QEYINSLGLCHNLIQRDLDFHSL LQDITLVHYIEDIMLIGSTEQEIA NTDLLFMAKEVWQWAHAHG IHWSYHVSHHPEAAGLIEWWK GLLKLQLQCQLGDNLTLEGWGK VLQKTVYALNQHPYGTVPPIA RIHRSRNKGVEVAPFTITPSDPL PQFLLPVPATLCSAGLEVLAPE GGTLPPGDRTTIPLNWKRLRPP EDFGLLPSLSQAKKGVTVLAG VIHPDYQDEISLLLHNGCKEDL
6692	37060	A	6742	3	350	
6693	37061	A	6743	1	3339	
6694	37062	A	6744	1	2271	

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6695	37063	A	6745	3	1377	AHLAADDFFCTK*GWVSGVLPQG LDKLTLPGANLEMQPENLKED LVYLKKNHEELSMAIKRNESM AKGLQRALLQQPEDDSKCFP RPQDLIRLYDIILQLTLEDREGK GLSFSFACVDKDVSVKMDTVP GVNLSCILNEMRDQDKKLVEK SCKDAQGWFFSLKALLEGLSVE TEVCYRTQLAQLQGLIRSMEEQ LCELCCDAEHQDHEHQVLLDV KTQLEQEIATYSRLLEVEDAQL ATQYSLSLASOPTREDLEKAIL KFIWNQNRAQIAKTILSKKSKA RGIMLPSPFKIYYKTTVTKTAWC WYKNRHIDQWNRIENPEIRPHT YNHVIFDKPDKRKQWGKDSL NKWCWENWLAICSKLTLDPFL NPYTKVNSRWIKDLNLQPKTIK ILKENLGNAIQDTGKGKDFMTK MPKAIATKAKIDKWDLIKLKSF CTALRNYQQSKPTTYRMGENF
6696	37064	A	6746	1	882	
6697	37065	A	6747	13	1402	STGSTHACDLLFSPSPVCLPPAA ATMTTSIR\QFTSSSISIKGSSGL GGG\SSRTSCLSGGLG\AGSCR LGSAGGLGSTLGGSSSYSSCYSF GSGGGYGSSFGGVDGLLA\GGE KA\TMQNL\NDRLGSLDKVPC PWKEANTELEVKNRDLVTRGR APGPARDYSQYYRTIEELQNKI LTATVDNANILLQIDNARLAAD DFRTKFETEQAALRLSVEADING LRRVDELTLARADLEMQIENL KEELAYLKKNHEEEMNALRGQ VGGEINVEMDAAPGVDLRILN EMRDQYEKMAEKNRKAEDW FFSKTEELNREVA TNSELVQSG KSEISELRRTMQALEIELQSLS MKASLEGNLAETENRYCVQLS QIQGLIGSVEEQLAQLRCMEQ QNQEYKILLDVKTRLEQEIATY RRLLEGEDAHLTQYKKEPVTR QVRTIVEEVQDGKVISSREQVH
6698	37066	A	6748	2	452	FLLPSSFCTHSLSPITIVPGP DFNLASHIIPDTTPDPHCISMIH LTFTPPHISFFPVPHPDHA*FID GSSTRPNRHTPAKAGYAIAQAT IPPLRTSHFLSIVEIYPQGNNSV FHVLFYYSSGIIQAPSLPYTLRR DRRPGTSRA
6699	37067	A	6749	1	1791	

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6700	37068	A	6750	1	219	
6701	37069	A	6751	2	528	TLTVESKSIKAYKLSLQFPHTC PKTGHALQVSSGFVESPTVTIVP GLDINLASHTIPDNTPEPHDCIS LIHLTFTFPFHVSVFPVPHPDHT WFIDGSSTRPNCHSPAKTGYAI VSSTLIIDATALPPSTTSQQAELI ALTRALTLAKGLPINIHTDSKY AFHILHHHAVI*AER
6702	37070	B	6752	1	1744	
6703	37071	A	6753	1	1376	MCKRMPGLQASQTVCPFYDKN YLDLKRKGTEIKRRERLKCCTK IERRKRLRDSERLEKRIKRGCLP DLKLSTEIQINRLRGLYTLLRKE RRFGLQETINYAEVTGIYVKELI EDREHLNSGKYIFNIFDIKVPV VFGIIDPYMLWEKKEGTKEGK EGMKRESQKRIKWERSFITFIAL NTADRTLMSAGCYRKQVKIHI DALPPPNSQTLKKRGGASLIISF RRQSGPSAAGLWEFARGPFQTL FAWLSPAEEAEQQRLLPASSAE SFIAEGDPPDAGQSSPSSLHAA AATALMLLEALKITNYAQLTLY SSPNFQNLFSSSHLTHILSADWL LQLYSLFVESPTITIVPGPDFNPA FHFIPDTTPDPHDCISLIHLTFTP FPHISFFVPHPDHTWFIDGSST RPNRHTPAKAGYA/DGRNTSYC VLSPVGNSPLVPNPGSARCTEG GLLYARA
6704	37072	B	6754	400	820	
6705	37073	B	6755	1	1190	
6706	37074	A	6756	1	1002	
6707	37075	B	6757	1	3216	
6708	37076	A	6758	1	4020	
6709	37077	A	6759	1	1155	
6710	37078	A	6760	2	346	SSYLMHILSAPNLLQLYSLFVES PTITIVPGPDFNLASHIILDTPD PHDYLSDDPDHIS/TFP/DISFFPV PHPGHTWFNDGSSTRPNRHSPA KAGHAIVFSTSIIEATALPPSTT
6711	37079	A	6761	189	1201	
6712	37080	A	6762	1	231	
6713	37081	A	6763	1	834	
6714	37082	A	6764	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSGE YLRPTPSYLNQVVRVTMT
6715	37083	A	6765	21	706	
6716	37084	A	6766	1	158	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6717	37085	C	6767	78	401	
6718	37086	A	6768	536	694	
6719	37087	C	6769	1	1410	
6720	37088	B	6770	1	1836	
6721	37089	A	6771	306	487	VGFLGILF/CFEAIVNVSSLMIW LSVCLLSVYKNACDFCTLILYP ETLLKLLISSSSLYLW
6722	37090	A	6772	714	1096	FFLPMSMECSSICLYPL/CISLRS GL*FSLKRSFTSLVSWIPRYFILC KSQGMRWLGLGSEA*YSCLLIL IRKITQNSVEVLGRRKFLGGGM EREWVMFLRAASSGIRGSVGT NFKSESRHQISCASV
6723	37091	C	6773	1	2796	
6724	37092	A	6774	126	490	FFLPMSMECSSICLYPLLFPNAV VCSSP*RGPSHPL*VGFLGILF/C FEAIGNGSSLMIWLSVCLLLVY KNACDFCTLILYPETLLKLLISL RRFWAETMGFSRYIIMSSANRD NLTSSFPN
6725	37093	A	6775	1	550	
6726	37094	A	6776	578	865	MCPRDYGMLCLCSH\CFKEHLY FCLHFVMYPVVIQEQVVQFPCS *AVLSEFLNPEF*FDCTVV*ETV CYNF*SFTFAEKSFTSNSVNVFG IGVWWC
6727	37095	A	6777	1	2091	
6728	37096	C	6778	1	1458	
6729	37097	B	6779	1	504	
6730	37098	A	6780	70	511	NHASPGIRNLFHLPRGLRAITIA VFCKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRVNN YDIIA*ATVSMASRSIRCGSVGS LPSSNLPINSVSIRCRARQEGIM SSPGQQVGFIA
6731	37099	A	6781	3	306	
6732	37100	A	6782	1	3567	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
6733	37101	A	6783	386	550	
6734	37102	A	6784	1	594	

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6735	37103	A	6785	1	1324	MGKKQSRKTGNSKRQSASPPP KERSSSPAMEQSWMENDFDEL REEGFRRTNYSELQEGIQTKGK EVKNFEKNLDECITRITNTEKCL KELMELKAKARELREECRLRS RCDQLEERHHTTPIPKLTTYLE VKLSPANVKEQVITNCLSDHSA IKLELRIKKPTQNPSTTWKLNN LLLNDYWVNKEMKSEIKMFFE TNENKNTTYQNLWDAFKAVCR GKFIALNAHKGKQERSKIDTLT SQLRELEKQEQTTHSKVSRQEI TKIRAEPKEIETQKTLQKINESR SWFFERINKIDRRLARLIKKRE KNQRDAIKNDEGDITDPTIEIQT TIREYYKHLIYANKLENLKEMD KFLNTYTLPRLNQEEAESLRPI AGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEKL VFGAGYFGM WALAALPSNLLKLSQLCQEEA EVNVLVQFVCIC*SCLNSVRRQ
6736	37104	C	6786	1	1719	
6737	37105	B	6787	1	1098	
6738	37106	C	6788	1	1782	
6739	37107	A	6789	3095	3217	CRCLQMAM*WS*AIALSMKIS MSPRKPEV*IKVLAGLCCCL
6740	37108	A	6790	1	5364	
6741	37109	C	6791	1	2505	
6742	37110	A	6792	37	1214	KLLQDLPFSINSSAVEKISMSTT GQVIRCKAAILWKP GAFSIEEV EVAPPKAKEVRIKVVATGLCGT EMKVLGSKHLDLLYPTILGHEG AGIVESIGEGVSTVKPGDKVITL FLPQCGECTSCLNSEGNFCIQFK QSKTQLMSDGTSRFTCKGKSIY HFGNTSTFCEYTVIKEISVAKID AVAPLEKVCLISCGFSTGFGA AI NTAKVTPGSTCAVFLG\GVGL SVVMGCKAAGAARD/IIGVDVQ QGRKF*GRAQELGATECLNP\Q ALKKPHFKEVLFDMDT\AGIDFC FEAIGNLDVLAALASCNESYG VCVVVGVLPA SVQLKISGQLFF SGRSLKGSVFGGWKSRQHIPKL VADYMAEKLNDPLITHLNL DKINEA VELMKTGKW
6743	37111	B	6793	1	2280	
6744	37112	A	6794	1498	1764	LVYLLKVMGRMEPSWKTLCRIJL SRRTSANLSKAGQCSDSGNTEN TTKILLKKSNSKTHNCQIHQS*N EGKNVKGSRERSGYRGRGRPS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6745	37113	A	6795	3	640	
6746	37114	A	6796	1	996	
6747	37115	A	6797	1	933	
6748	37116	A	6798	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRN *NRVKAIM/VGKAEWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFESPEQEKALQQVQAVV QAALPLGPYPADPVLEMSV ADRDVWILWQAPISESQWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDLSSPKMCHPQQ
6749	37117	A	6799	1	229	
6750	37118	A	6800	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAVALQPLSRTS LKDSSEKSSQWAEQAVYLV VHFAWKEKWPVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAAEEFN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHICYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
6751	37119	A	6801	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEDFNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
6752	37120	A	6802	1	354	
6753	37121	A	6803	3	592	

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6754	37122	A	6804	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAAALPLGP YDPADPMVLVSVADKDAVWI FHLSGSDRWRTYRCL
6755	37123	A	6805	1	636	MEFNDSMHNTFDHIWRTKEYD EAGWLLLSSLDKAMKENDEL DSNSQIQKQILSLQSSKIILNLT GTVVTQLQNLNSVGIHGSQGG GQVAALSLQRQGASFEWSPEQ EKALQQVQTAVQAAALPLGPYD PSDPMVFEVSVADGNAVWSLW QAPIGELQWRTLEFWSKALPSS ADNYSFGRQLLACYWALVET EHLTVDHQVT/M*PELPIM
6756	37124	A	6806	1	672	
6757	37125	A	6807	308	470	
6758	37126	A	6808	1	1908	
6759	37127	A	6809	1	1218	MGIIGSRGGRGQVAALKRQRQ VTKKAASFEWGPEEEKALQQV QAAVQAAALPLGPYDPADPIVLE VSVADRGAVWSLWQVPIGESQ QRPLGFWSKALPSSADNDSPFE RQLLACYCALVETERLDMGHQ VTMRPEVLIINCVLSDPSSH/QG WRLCMDSATWTSTYQ/A*PGY GHC*VPNLPAETNTDPSIWHH S/YG*LASYLVIG*LHWTSSIME GAEVCPHWNRLRLI*VCLSCT QCFCE/SHPWIHE/ASYLPSWH ST*HCL*SRHSPYS*RSVAVGSC SWNSLVLPSPSS*SSWINRMV EWPFEVTITMPTR*QYSAGLGK SSSEGCVCSESASNIWYCFRSRQ DSWVQESRGGSGSGTIHHHF** PTSKIFASCFLDIMFCWT*GCS/S *WRNAATTRHNNFI
6760	37128	A	6810	901	1142	GPEDLQGLFILSFQDPLL/SHPV CLEALAPFPSPVPVPISSFPHPVA GEFWLYPSGAA/RASSDAQSWT VIAVSPRLRLNSWG
6761	37129	B	6811	1	1452	
6762	37130	A	6812	122	1838	
6763	37131	A	6813	101	249	MTHVTALRTSSNLMRN*RKVG EAKSQEH*S*QACHLKSRMSS SRLWIN
6764	37132	A	6814	1	1074	
6765	37133	A	6815	310	397	LTIWQDSNPGSCL*GCSVCAHA /CVGGQHMVCF*PSYSLYLKSE PKEGTGRNKDPLNSQNRKGF LEQIHFG
6766	37134	A	6816	1	583	

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6767	37135	A	6817	1	486	
6768	37136	A	6818	2	1001	
6769	37137	A	6819	1	2307	
6770	37138	A	6820	3	393	
6771	37139	A	6821	1	1776	
6772	37140	A	6822	1	1140	
6773	37141	A	6823	1	558	
6774	37142	A	6824	2	798	PRVRIFFSITWYSLRVLTEISLW GGLILVVIITIQYDMTRTRNKYL HTNSLVALANMSAQFR\SLHQY AA\QRIIRLFSLLSKHKNKVL EQ ATQSLRGSLSNDVPLPDYAQD LNVIEEVIRMMML\EIINSCLTNS LHHNPNLGITPWLLQ\RRSLWN NFR\THPSFQINGKILIWVIF/LS /SRLQGLAGKLGAELSVERVLEI IKQGVRLSLPKDRLKKFPELKFK YVEEEQPEEFFIPYVWSLVYNF SSRPVLGIPQDIPAVSPWVSD
6775	37143	A	6825	3	206	PSASRPAWHPALHPSVPARG WQPPTGLHPLREQRGLGQHM* QSSGQQPQGGVGPESHFGAL WAQL
6776	37144	A	6826	200	601	EMGSCDQWQRPCVPWEAVVM PRDP/LKMALAVVWPKMKAPR VTKRTP*LTSTHQLAGLTSSISE SLA*MRHSPGKTKMKQAARPP MTEITLPMMSGMKS/VQQQGEQE PDQRLQHSPPLPPHVLLHWHP LVAQPQA
6777	37145	B	6827	25	1407	
6778	37146	A	6828	1786	1795	HC*LNALPSGETWGQKRGLPG TQLPLPL/VPLRAPKGRSPKGSK GPTHHTWALSSFSLTSPQVTVG TEDQATSASGRPWLRIGHTPGG GRVWAGRDS\RGVPALTVLHV LSSLGRETP*RPLRGPTAPAGP KRAPGKWLPWSQAPPCGCCPR *LSHVL*DRNRCAW*KGGGRG L/LRAPTPVPELAPHPCGPAPTL SKPLSSPNMPAQGLTQE*PGSV ANLPPYGPALLCLGRREWDER GQVG*VPTSEME*RRTEPLKT PGDCSAAASKIPFFSNRTFPPL CPHKNKLKGT
6779	37147	A	6829	1	311	
6780	37148	A	6830	1	402	
6781	37149	A	6831	1	750	
6782	37150	C	6832	130	450	

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6783	37151	A	6833	1	875	MRLRLKLVKVEQHVELYQKYS NNSWRYLSNRLLAPSDSPEWLS FDVTGVVRQW/VWSRGGEIEGF RLSA\HCSCDSRDNTLQVDINGF TTGRRGDLATIHGMNRPFLLFM ATPLERAQHLQSSRHRRALDTK YCF\S\STEKNCCVRQLYIDFRKD LGWK\WIHE\PKGYHANFCLGP CPYIWSLDTQYSKVLALYNQH NPGASAAPCCVPQALEPLPIVY YVGRKPKVEQLSNMIVRSCKC NLGPAPPRPAPAGPAPPRPAPV ALPMGAVFKDTRAPSPPGAPLK MERGKKKKKK
6784	37152	B	6834	162	635	
6785	37153	A	6835	2	1846	
6786	37154	A	6836	322	2104	
6787	37155	A	6837	1	352	
6788	37156	B	6838	92	1774	
6789	37157	A	6839	260	1016	
6790	37158	A	6840	479	1937	DVEHVGMRRRWRRRVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHCAPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VVIFPVPECIIGIDMLSSRQNPHT GSLTGRVWTIMVRKAKWKPLE LPLPRKIVNQKQYHIPEGIVEIS ATIKDLKDAGVVIPTTSPFNPI WPVQKTDGSRMTVGYCKLN QVVTPIAAAVPDVVSLEQINT PPGTWYAAIDLANDF
6791	37159	B	6841	20	26	
6792	37160	B	6842	2	207	
6793	37161	B	6843	187	405	
6794	37162	A	6844	451	770	LFLFLLSSHPRSSASWYRHRH PHHPAARLPVADSASSSSSPSS SSPSPSSSSSSSPSSSFVYPHC QPPAPHFPH*HSR*QGRLFHFLP LPQLPSSPLSPWW
6795	37163	A	6845	1	417	
6796	37164	A	6846	191	314	
6797	37165	A	6847	129	212	

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6798	37166	A	6848	1	192	CALNAGL/IGENEAKRRRSKVT QEADFPGSMDGASNFVRGDAI AGILIMVINIVGGLLVGV LQHG MSMGHAAESYALLTIGDGLVA QIPALVISTAAGVIVTRVSTDQD VGEQMVNQLFSNPSVMLLSAA VLGLLGLVPGMPSLVFLFTAG LLGLAWWIRGREQKAPAEPKP VKMAENNTVVEATWNDVQLE DSLGMATGLLT*PIFRAQWTGQ VTLFAAMPSPGSSWSLTL SAG CWSACCNMA
6799	37167	B	6849	65	1129	
6800	37168	B	6850	46	1038	
6801	37169	A	6851	2	413	PSFQGPVSLPSITVVSIDSQASKP LKTPQLWCQLRQYSFKHSFLV VPTCPVPLLG*DTLTKLSASLTI PGLQPHLIATHLNPQVEDTSIPS LATYHAPLTISLKPNIHPYPSQC QYPIPQHALKGLKPVITHLLQH
6802	37170	C	6852	35	346	
6803	37171	C	6853	239	484	
6804	37172	A	6854	1	1020	
6805	37173	A	6855	3	131	
6806	37174	A	6856	1	956	MAGALPPASLP CSLISDCCASN ERSSMGIGPSEPCAGYNLLVCR LTKKKRIRSTNKVWDYVKRPN LRIIGVPEEEENSKSCENILGEIIE ENFPSLATDLDIQIEAQRTPQK FITERSLPRYIVIRLSKVTKERI LRAVRQKHQIFLTQRLKTNTAQ SPQKLPGPSQTLLVTLTREITIVP GLDFNPASHIADTTPDPHDCIS LIHLTFIQFPHISFFPVPHDHTW FINGSSTRPNRHSPAKAGYAIVS STSIIEATTLPSSTTSQQAEFIAL TQALILAKGLCINIYADSKY/AF HILHHHAVIWAERDTFTG
6807	37175	A	6857	1	1269	
6808	37176	A	6858	1	741	
6809	37177	B	6859	411	1257	

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6810	37178	A	6860	438	3997	SPLPHSTPISHPAACFKKIKACY HLPATAWPFKAYKLSLQFPHFT CPKTRQGLQHNSHKNTALPD YRLRLISQTPIPSTKQQLSFLG MVSKVRILTQELGPRPIAFLSKQ LDLTVLTQPSCLHAAAAAALIL LKALKITKYAQLTLYSSHNFNQ LFSSSYLMHILSAPWLLQLYSLF VESPTITIVPGTDFNPASHILDT TPDPHDCISLIHLTFTFPFRISFFP VPHPNHIWFDGSSSTRPKCHSPA KAGY
6811	37179	A	6861	245	505	
6812	37180	A	6862	346	522	PAPEFWVHG*NVSPLSL*SKEQ EDRGFISQGRSPDLSHGTFHV RPCEETTKQALCEQH
6813	37181	A	6863	3	879	SGDLPWEINPPSSYTLLCEKDPP TTSGPQTNQPKKHLTNFKSETK ETRFIRGPTTPAPVTDWEGSLPL VFNHSRDTSLIHPGFRGVRPRR DACLGPSPLAASPTFLGKGPA PRQTELGPNSSSASAPPPYNPFI ASPPHTWSGLQFPSMTSPPPPA QQFTLKKVAGAKGIVKDLINLT FKVYNNRKKLQFLASTVRQTP ATSPAHKNFQTPELQQPGVPPE PPRGACYKFQKSGHRAKECLQ PRIPPKPHPICVGPWHKSDCPTH LAATPRAPGTLAQGSLTPSQIFL
6814	37182	A	6864	143	331	DTSTPSLVTDHASLTISLKPNIHF YPD*CQYPIQHALKGLKPVITC LLQHGLLKPINSYPRA
6815	37183	A	6865	1	783	
6816	37184	A	6866	32	415	WRHALKGLKPVITRLLQHGLL RPINSPYNPFLLVLEPDKPYRK RK*ISPPNRHILASVEVLKNQVN SHEFERSALIHTLTSLGAPCSLH KMCSKLPRSFLSVGSGTGKEAR SKILTFRTASRHLVL

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6817	37185	A	6867	1	1374	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKPTETKTAW YWYLNRDIDQWNRTEPSEITPH TNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPF FTPYTKINSRWIKDLNVRPETIK TLEENLGITIQDIGVGKDFMSKT PKAMATKDKTGKWDLIKLSF CTAKETTIRVNRQVAALLNSA VFQNAVEVVVWPSSEVHVKFL FCKIISCAGQKQPIKFDGSSSL GVATAMMSATIAHLKRIKACY RSPVTAWTFKAYKLSLQFPHFT CPKTGQALQ*HT*KGLKPVIAH LLQHGLLKPINSPYNSLILPVQK PDKPYRKLESFTSKAIKWHQIPS \PGKHLC**GS*RSPVTAWTFKA YKLSLQFPHFTCPKTGQALQEA GVIHFKGHQMASDPITQGNTYA NKVAKEAASVLTSVPHGQFFSF SSVTPTYFPTEIDFTYMPQVRKL KHLMV
6818	37186	A	6868	122	281	
6819	37187	A	6869	2	2144	
6820	37188	A	6870	224	418	LSQWRHALKGLKSVITRLL*HG LLKPINSYPNSPIPVLPKPDKTY RKVESFTAKTIKRCQIPLL
6821	37189	A	6871	5	289	
6822	37190	A	6872	1	2205	
6823	37191	C	6873	1	2082	
6824	37192	B	6874	1	1614	
6825	37193	A	6875	1	2067	
6826	37194	A	6876	1	1152	
6827	37195	A	6877	1	798	
6828	37196	C	6878	488	788	
6829	37197	A	6879	90	765	NTVFGLVVLPLELKLRIFRLLD VRSVLSLSAVCRDLFTASNDPL LWRFLYLDRDFRGDFRNDIYSWT TKDFEYYINLVDKTEARFEKVD SDFESFTVGKMPSNSIACTEKSF MKGRVSQCDKKPVITRLLQHG LLKPINSYPNSPILPVLPKDPKY KLVQDLHRINQIVLPIHPGGAQP HTLFCPQYLPPQLTIPVPLDKDA FFTIPLQPSQ\PLFAFT*TD PDT

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6830	37198	A	6880	1824	2286	PRVLRPNSPRNISPISNRIFSD*R CPIASEASWTITDALG/RLLQWR HGLLNPI NSPYNSPILPVQKPKD PYRLVQALLSLPQLPLFLAWTSI WPPTLFRITLLNPM TVSL*ST*H SLHFPMFPSFLFLTLITLGLLMA VPLGLIATHQRRAML
6831	37199	A	6881	930	1289	LSQWTDGLLKPMNSPYNSPILP VLKPKPKYK*VQDLRLINQIVL PIHPVV\PNPYTLSSIPPSTTHY SVLDLKLAFFTIPLHPSSQPFFAF TWTDPDTHQAQQIT*AVLPQSF SDSPHE
6832	37200	A	6882	2	196	IHGCKFIQCKRILSNFTEVADHV HDQIRL*TGIRLLTQPQRLSCR HQVAQHSVCRYLCQLPLL
6833	37201	A	6883	2	1441	LNQEEGESLNRPI TGSEIEAIINS LPTKKSPGPDGITA EFYQRYKE ELVPFLVKLFQSTEKEGILPNSF YEASII LIPKGRD TTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHNGQHINRTNDKSHIISIDA EKTFGKIQQPFMLKTLNKLIGID GTYLKIIRAIYDKPTANIILT GQ KLEAFPMKTGTREGCPLSPLL NIVLEV LARAI RQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLRLISTFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKALLNEIKEDINKWKNIPC SWVGRJINIVKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKFIW NQKSARIAKSILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNTTEPSEIMLHIYN Y/LIFNKPEKNKKWGKDSL FNK WCWENWL

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6834	37202	A	6884	69	2415	DKTSRGTIQQRLRFTNIRCSAA TAADIQANRVWRGPPANSNRP AA\RVLTVRRKTNKQKGHPHQ KPICTSPSSNTKEIQTITREYYKH LYANKLENAEERDKFLNIYTLP RLNQKEVESLNRPTGSEIEAIK SLPTKKSPGPDGFTAKFYQRYK EELVPFLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLMNIDARILNKILANLIQHHK KLIHHDQVGFIPGMQGWFNICK SINIIQHMNRTKDKNHMIISIDA EKPFDKIQPFMLKTLNKLDD GTYLKIVRAKYDKPTANIILNG QKLEAFPLKTGTROGCPLSPLL FNIVLEVLAIREQEKEIKGIQL GKEEVKLSLFVDDMIYLENPIV SAQNLLKLISNFSKVSGYKISVQ KSQAFLYTNNRQTESQTMSELP FTIASKRIKYLGIQLTRDVKDRF KENYKSLSEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFI NQKRARIAKSILSQKNKAGGIT LLDFKLYYKATVTKTAWYWY QNRHVDQWNRTEPSEIMLHIY NYLIFEKPDINKQWGKDSL FNK WCWENWLAICRKLKLDPLTS YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGMGKDFMSKTPK AMATKAKLDKWDLIKLSFCT AKETTIRVNRQPTGWEIFATY
6835	37203	A	6885	1	2358	
6836	37204	B	6886	1	1443	

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6837	37205	A	6887	452	2913	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDIYRTLHPKSTEYTFFSAPHC/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQ\NRS ATWKLN/MLLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKA VCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEOTH SKVSRRPISSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELVPFL LKLFSIEKEGILPNSFYEASII PKPGRDTTEKENFRPISLMNIDA KILNKILANRIQQHIKKLLHHDQ VGFIPGMQGWFNICKSINVIQHI NRTSDKNHTIISIDAEKAFNKIQ QLFMLKTLNKLGTNGMYLKIV RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIQGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINLQKSQAFLYT NNRQTESQIMSELPFTTASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWRNIPCSWVGRIN IVKMAILPKVTYRFNAIPIKLPM TFFTELEKTILKFRWNQKRAHI AKTILSQKNKAGGIRLPDFKLF YKATVTKTARYWYENRDIDQ WNRTEPLEIMPHIYNHLIFDKPD KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTSYTKINSRWI
6838	37206	A	6888	1	1677	

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6839	37207	A	6889	2	2400	SMRQKENKDIQDLNSALHQAD LIDIYRTLHPKSTEYTFFSAPHCI /RTYSKIDHTLGSKALLSKCKIT EIITDSQTTVLSELRIKLTQ\NR SATWKLN/MLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDTLMSQLKELEKQEQT HSKVSRRPIPSSEIEAIINSLPTK KSPGPDGFTAIFYQRYKEELVP FL\KL FQSIEKEGILPNSFYEASH LIPKPGRDTTEKENFRPISLMNI DAKILNKILANRIQQHIKKLLHH DQVGFIPGMQGWFNICKSINVI QHINRTSDKNHTIISIDA EKA FN KIQQLFMLKTLNKLGTNGMYL KIVRAIYDKPTANIILNGQKLEA FPLKTGTRQGCP LSP LFNIVLE VLARAIQEKEIQGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINLQKSQA FLYTNNRQTESQIMSELPFTTAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWRNIPCSWV GRINIVKMAILPKVTYRFNAIPI KLPM TFFTELEKTILKFRWNQK RAHIAKTILSQKNKAGGIRLPDF KLFYKATVTKTARYWYENRDI DQWNRTEPLEIMPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI CRKLKLD PFLT SYTKIN SRWIEDLNVRPKTIETLEENLG
6840	37208	A	6890	1	1515	
6841	37209	A	6891	1	1428	

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6842	37210	A	6892	150	1920	NYQCREVLKGPDGAENHGTRT T*RMHK\SSQFSQLEERVSGM EDQTNETKDT\RLKIKGWRKIY QANGKQKKAEEAILVLDKTD KPTKIKGDKQGHYIMVKGSIQQ GQLTILNIYAPNTGASRLIKQVL RDLQRDLDSHTIIMGDFNTRLS TLDRSTRQRLNKDIQELNSALH QVDLIDIYRILHTKSTEYTFSSA PHHTYSKIDHTVGSKALLSKGK RTEIITNRLSDHSAIKLELRIKEL TQNRSTTWKLNLLNDYWNL WDTFKA\VCRGKFIALNIQKRK QERSKIDTLTSQFKELEKQEQT HSKASRRQEITKIRAE\KERETQ KSLQKISESRSWFFEKINNIDTP LARLIKKKREKNQIDTIKNDKG DITTDPT\EIQTIRQYYKHLYAN KQENLEEMNKFLDTYTLPRLN WEEAESLNR\PI TGSEFEAIINSLP IKKSPGPDGFTAKFYQSYKEEL VPFLLKLFQSI\EGILPNSFYE ASIILIPK\GRD\TTKKDNFRPISL MNIDAKILNKILANKIQQH\SKK LIHHNQVGFIPGMQGW\NTCKS INIIQHINRTKDKNHMIISIDA\EK AFDKIQQPSC
6843	37211	A	6893	1	1797	

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6844	37212	A	6894	2	1880	APNTGAPRFIKQVLSDLQRDLDSHTIIMGDFNTPLSTLDRSMRQKVNKDIQELNSALHQADLIDYRTLHPKSTEYTFFSATHHTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRIKKLTENRSTTWKLNNLLNDYWVHNEMKAEIKMVFETNDTLPRLNQEEVESLNRPKTGSEIEAIINSLPTKKSPGPDGFTAIFYQRYKEELVPFLCLKLFQSIEKERILPNSFYEASIIIPKGRDTTKK/EENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQLGFIIPGMQGWFNICKSMNVQIHINSPKDKNHMIIISVDAEKAFDKIQQPFMLKTLNKLIGDGYLKIIRAIYDKPTASIIINGQKLEAFTLKTGTRQGCPLSPLLFNIVLEVLARAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLLKLIGNFSKVSGYTINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDFFKENYKPLLNEIKEDKNKWKNIPCSWVGRINIVKMAIPPKVIYRFNAIPIKLPMTFFGMIFLSQKYGHVTLLFRLLQWLLNVARNNNKVFYKIYKVGHKLSSAYVLCLTCSHFSVSFL
6845	37213	B	6895	13	1506	
6846	37214	A	6896	1	6635	MTPESRDTTDLSPGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERALLSSYLVA YRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIPLSDNTISRRICTIAKHLEAMLITRLQSGIDFAIQLDESTDIASCPTLLVYVRYIPLKLRLGGLLQPEKPIVLKVESRDGTIQYNSQQHINLSAAWLKTAVQGREAPGKQPSKQQHSAKRKTHRTQLKKESGDGPHPKFGGGLASP
6847	37215	B	6897	1	3045	

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6848	37216	A	6898	1	2764	MARELHDKCTSFSSRFDQLEES LSAMEDQMNEEMREKFKREK RRKRNEQSLQEIWDYVKRPNL HLIGVPESDRENGPKLENTLQDI IQENFPNLARQGNIIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTIREYYK HFIYANELENLEEMDKFFETYTL PRLNQEEVESLNRPIITGSAIEAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLKLFQSIEKEGILPNS FHEASIIIP
6849	37217	B	6899	1	3549	
6850	37218	A	6900	387	541	
6851	37219	A	6901	1	545	
6852	37220	A	6902	71	370	RRCKVRPSARGVLRVAVCVCV CVCVYPCVHVCTCVRMCLCVC VCVCE/CSVEIHCGGQGCARCIC LQPQEGGCTEQAVALHCAAQL WRNRLKLMKQPVARV
6853	37221	A	6904	1	738	
6854	37222	A	6905	1	567	
6855	37223	A	6906	1	1416	
6856	37224	A	6907	3	1267	
6857	37225	A	6908	1	552	NALPGRKSRVFSGCVSADTWK PPSSAKVTETKGASPAFLRAGQ PRLVPGETLEKSLGPGKDPQVE PQHPVHLPGISSEGFWDGFNE QTPKD\LPNRDGGAWVLGYRA GPACPFLLHEEREKSNRSELYL DLHPDHSLTEQDDRTPGRLQA VWPPPKTKDTEEKVGLKYTEA EYQAAILHLKRE
6858	37226	A	6909	1	561	
6859	37227	A	6910	219	1343	RRLCHTQPTLGMRESELVNV CVHSVFSLSVQAMQEKDEAK AETIQALYHQTLALQTLKAL FIEDPTAGLKSILEALGPWMNS GKAHERARAVNTNVSVLNHM LLTLPPFMPLGFALGLLGRLL LHIGDPDEEIGCEALDGIILYTI LELQKRARDKEETNKKEYES NKHFLGPYNPVSPQNILRVIEE FGDFLGPQIKDLLAALEGLK GSSEAPGKDSREMMQLASEVM LSSVLEWYRHRALVPEIMQGI YMQLSHIQEPRARQVALLPVSL LASSFMTEVVVALLMCPLPLNR QPAACASSCPSTAAWAV*GAST LSCSWPCSFRSITTSASTCLAAW LLPRTPRRVHSPLPSYLCAGW

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6860	37228	A	6911	3	730	
6861	37229	A	6912	2	1218	ERKCMQGGKYAGAMESEPCVCT EADFDCDYGYERHSNGQCLPA FWFNPSSLSKDCSLGQSYLNST GYRKVVSNNCTDGVREQYTAK PQKCPGKAPRGLRVVTDGKL TA\EQGHNVTLMVQLEEGDVQ RTLIVDFGDGIAVSYVNLSSM EDGIKHVYQNVGIFRVTVQALV RLPPHISQCDEVFRFFEAPEDV NPPKDQALLLGELGPAVELCLK EERFADAIILAQAGGTDLLKQT QERYLAKKTKISSLLACVVQK NWKDVVCTCSLKNWREALAL LLTYSGTEKFPELCDMLGTRME QEGSRALTSEARLCYVCSGSVE RLVECWAKCHQALSPMALQD MHVISTDENQVFAAVQEWQNN DTYNLYISDTRGVYFTLALENV QSSRGPEGNIMIDLYEVTI
6862	37230	A	6913	1	1659	
6863	37231	A	6914	540	824	KPRLENYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWQYVKDQ IYVRLVYLKVTGRMEPSWKTL CRILSRRTSPI
6864	37232	A	6915	1	939	
6865	37233	A	6916	285	458	QVFSQLEGRIALGKFQRPSSLPT GKWTQRCWWGAQWE*D*LFG LHGWWVRPVIAGFP
6866	37234	A	6917	32	171	
6867	37235	A	6918	294	461	
6868	37236	A	6919	2	255	LIPCPATVNNVSDIMGMYMKE CSASLITREMQRITTIMRHHLTS IGTEMIRK/SKNNECWSGRECQ TVGAGQCVRAPCASRSRARRH
6869	37237	A	6920	2	393	
6870	37238	B	6921	87	633	
6871	37239	A	6922	78	260	TQYLRWKCNRHRLRRSCWEL *TRAVPIRPSWLQNRYQGTSRF CVCFEESGTPSTQLEI
6872	37240	A	6923	1	369	FVLHEKCLGPFITGNTNVEM VKKICAPT*TKHVWV*LES*M WEEPRWPNGKAPVYSSQREQR RRRVISAFPSEGVLPTFKNKKF TVKQPQVGRSVGIPEGIVIIGD GQLQGCLLPLKTF
6873	37241	A	6924	3	201	LKEMQINTTMYHSITPSRTS*VI KKTDDNNKFWMRMTEKLETSY CWWECETMQPRWKVSLQYLL PLI

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6874	37242	A	6925	1	2064	
6875	37243	A	6926	95	752	
6876	37244	A	6927	2237	5072	RAKSPANIIMTGSNSHITILTLN VNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
6877	37245	A	6928	3	331	
6878	37246	A	6929	364	853	
6879	37247	A	6930	2	531	RPRVRELVGGSIAIQALKEWNTT GKLRI NH*KRCGSTQHHGSKYA TDKEERPDACPLQPQPPIQNG PMNGCEKDSSSTDSANEKPALI PREKKISILEEPSKALRGVTGPNI EKSAKDLQRCTVSLTRYRVMIK EEVDSSVKKITAFAELHNCIID KEASLMAEMGTVNEQAMRC
6880	37248	A	6931	1	456	ISILEEPSKALRGVTEGNRLQ QKLSLDGNPKPIHGTTSDGL QWSAEQPCNPSKPKAKTSPVKS NTPAAHLEIKPDELAKKRGPN EKSVKDLQRCTVSLTRYRVMIK GEVDSSVKNKAACAEPICIID KEVSLMAEMDKVKGRKPW
6881	37249	A	6932	333	964	
6882	37250	A	6933	240	691	
6883	37251	A	6934	1	2076	
6884	37252	A	6935	14	485	RRSLESVLSRKLNPFF*KATGTSR SES AVWAIDAVSSPQKRLLDSE FIDPLMNKKARISHLTNRVPPTL NGHLNPTSEKSAAGLPLPPAAA AIPTPPPLPSTYLPISHPPQIADS HSPAAPVQGIQPF LTADQYWLE NRYP SQHLSRVTASRARHQT
6885	37253	A	6936	1	643	
6886	37254	B	6937	1	408	
6887	37255	A	6938	2	197	
6888	37256	A	6939	103	298	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
6889	37257	A	6940	117	257	

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6890	37258	A	6941	46	219	LKECNCIVCNSKNKCLKG*KKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGRRGRGRGRRR RRRRRRKKK
6891	37259	A	6942	1	1314	MVSRIWSWISEAQCLCRPSGT YGPGEAALLLWLCIEAAAAAA AARSTTTPIITNHQSNTIAEQNP PRHENGDPKTYIIHVLAEQVLE RLPHGVALRHDPLAPVVSRA GVGHQRCAADDALQPLLQGRP EPGLAERHGVQDNLIKVSHTH TQKSAEKRAVSDPSSTVHRPQP LPPSTVHQSTIPSNPDSSAYCL PSTRHGFSSTYDSFVPPSGPSNP MNPTIGNGLSPQRVHYQHLP AGGKRNAALEYGVPRKYYHM LKITASDYEKTKPFQVGDKVM GSGWRKVGMQT*FL*LKKEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEENSLSLTE
6892	37260	A	6943	1	160	
6893	37261	A	6944	1	306	
6894	37262	A	6945	1	933	MWLARELEESLAVSLQGEPL LAGAGRLQGSPFSHPMEPGRQS ETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE DQLDTMFGTHQQTSPQRSAR RRPCSVQGPRS*SPFSHPMEPGR QSETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEDQLDTMLWDSSTNLTNTAL SKEKTMFSSRAKIVKPNGEKPD EFESGISQALLELEMNLDLKAQ LWELNITAAKEIEVGGRKAIH FVPVPQLKSFQKTQVQLRRILP KPTQKSCNNKQKLPRSCTLTA VHDAILEDLVFPSEIVGKRIHV LDGSHLIKIHLEAQNNVEHK VEPFSGVYKKLMGKDVNFEP
6895	37263	A	6946	1	1365	
6896	37264	A	6947	416	610	EFKKPVLEGGA*RGEGGSPCV WSFFDPVHFNYQAGLFRVALP GEQCRTGRLVARVYTGISGASF
6897	37265	A	6948	1	846	

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6898	37266	A	6949	3	620	HVTLLIVVTQSHLVIHNLFEGLMI WFIVPISCVICNDIMAYMFGFFF GRTPLIKLSPKKTWEGFIGGFFA TVGFGLLLSYVMMSGYRCFVCP VEYNNDTNSFTVDCEPSDLFRL QEYNIPGVIQSAIGWKTVRMY PFQIHSAIALSTFASLIGPFGGFF ASGFKRAFKIKDFANTIPGHGGI MDRFDCQYLMATFVNVIACV LRPL
6899	37267	A	6950	50	554	
6900	37268	B	6951	446	625	
6901	37269	A	6952	1	2149	
6902	37270	A	6953	1	1704	
6903	37271	A	6954	1	1853	
6904	37272	A	6955	1	1305	MVKGSI PQEELTILNIYALNTGA PRFIKQVLRDLQRDLDSHTIIMG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADIIDIYRTLHPKST EYTFFSAPHHTYSKIDHIVGSKA LLSKCQRJEIITNCLSDYSAIKLE LRIQKLTQNCSTIWKLNNLLLN DYWVHKEMKAEIKMFFETNEN KDTTYHHLWDTFKA VCRGKFI ALNAHKRKQERFEMDTLTSQ KELKKQE QTHSKASRRQEITKI RAERKEIETQKTLQKINESGSW FVEKINKIDRPLARLIKKKREKN QIDAIKNDKGVITTDPTIEIQTIR EYYKHL YANKLENLEEMDKFL DTYNLRLRNQGEVESLNRPTG SEIEAIINSLP/TKKSPGPNGFTA KF*QEELTILNIYALNTGAPRFI KQVLRDLQRDLDSHTIIMGDFN TPLSTSDRSTRQKVNKDIQELN SALHQADIIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCQRJEIITNCLSDYSAIKLELRI QKLTQNCSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYHHLWDTFKA VCRGKFIAL NAHKRKQERFEMDTLTSQKE LKKQE QTHSKASRRQEITKIRA ERKEIETQKTLQKINESGSWFV EKINKIDRPLARLIKKKREKNQI DAIKNDKGVITTDPTIEIQTIRE YYKHL YANKLENLEEMDKFLD
6905	37273	A	6956	1	1926	

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6906	37274	A	6957	2	1025	WRRIQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNLIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLNIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTEIITDCLSD HSAIKLELRIKKLTQNSSTTWK LNNLLLNDYWIHNKTKAEIKM CFETSENKDDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLE/LEKQEQTHSKASRR NLEEMDKYLDITYTLPRNLQEE FESLNRPIGTSEIEAIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDFKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKQVLSDELQRDLDSHTIIMED FNTPLSTLDISMRQKVNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFISAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHKEMKADIKMFFETNES KDDTTYQNLWDAFKAEELESN RPITASEIVAINSLPSKKSPGPD GFTAKFYQRYKEELVPFLKLF QSIEKEGILPNSFDEASIIIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQHHIKLIHHDQVGF PGMQGWFNIHKSINVIQHINRT KDKNHMHSIDAEKAFDKIQQSF MLKTRNKLIGDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSGYKINVQKSQAFLYTNNR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIW DYVKRTNLRLLIGVPESDWENG TKLENTLQDIIQENFPNLAR*AKI QRI RSQDPSTHLTSRDTHRLKIKG WRKIYQANGKQKKA AVTILVSD KTNFKPTKIKRDNEGHIYIMVKG SNQQEELTILNIYAPNTGAPRFI KQVLRDLQRDLDSHTIITGDINI PLSTLDRSTKQKVNKDTQELNS ALHQVDLIDIYRTLHPKSIEYTF FSAPHHTYSKVDHILGSKALLS KCERIEIITNCLSDHSAIKLELRI KNLTQNHISITWKLNNLFLNDY WVHNEMKAEIKMFFETSENKD TTYQNLWDAFKA VCRGKFIAL NAHKRKQERSKIYTLTSQLKE LEKQE QTHSKASRRQEIIKIRAE LKEIETQKTLQKLNESISHQLEW QSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPGPLPYKSS*KKH*TWKGT TGTSCC/INHAKIVTHRLKIKGW RKIYQANGKQKKA GVANLVSD KTDFKPTKIKRDKEGHIYIMVKG SIQQEELTTLNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLLT LDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYTF FFSAPHHIYSKTDHILGSKALLS KCKRTEIITNYLSDHSAIKLELRI KNLTKNRSTTWKLNNLLNDY WVHNEMKAEMKMFFETNENK DTTYQNLWDTFKAMCRGKFIA VNAHKRKQERSKIDTLTSQLKE LEKQE QTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	

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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINERSWFF ERINKIDRLARLIKKKREKNQI DAIKNDKGDITDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASIIIPKPRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKAFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIVKMAILPKMCL*R RWTPLCLLTAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMVGCR/DWHLLLVI KGLRKL TIVAE GEGGAGMSLG ESGNKIKRDKEGHYIMVNGSIQ QEELTILNIYAPNTGAPRFIKQV LRDLQRDLDSHTIIMRDFNTPLS ALERSTREKV N KDIQELNSALH QADLVDIYRTLHPKSTEYTFFS APHRTYSNIDHIVGSKALLSNC KRTEIITKCLSDHSTIKLELRIKK LTQNRSTTWKLNLLNDYWV HNEMKAEIKMFFETIENKDTTY QNLWDTFKAECRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEKET ETQKTLQKINESRSWFFERINKI DRPLARLIKKKREKNLIDAIGN DKGDITDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTLF RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPDGFTAEFYQRHT VSILISYCQGGSLMSQVYWNQQ EKPPSSSNAPPGLSVNKAQHRH VCCRGEMLRVQVHYVRAGES DSASFHCVAQGPRAFGKPLILS KENHLLTVTAIAKLNHKLCEIK SMGVFINTEPLYDSCLEQKHAL FASPPATTHSTTMISKAKVIPML SLTPGSFQTVESLAPSAGKFQG TETSSLKTLINLCCPKLPSPSPA HLGGLPGGSQERPSRQYLYESA RTTVLLGLGCPLKQIQLRSQHS SPLEYLES L P K K DR K K RE K I Q I N

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6924	37292	A	6975	1	1687	MLKGSIIQQEELTVLNIYAPNTG APRCIKQVLSDVQRDLDSNTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLKELEKQEQTSHSKEIQTIR EYYKHLYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEEMHINRAKDKNHMIIS IDAEKAFDKIQPFMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLAIRQEKEIKGIQ LGKEEVKLS\LFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP
6925	37293	B	6976	1	2431	

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6926	37294	A	6977	1	1921	MGESVQSLLTLAQKRSMMIQV AVAPRTPTLLKLYKEKASKTQ LKKVNLVVQDQGSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKDSYGLR QSSTMVATTWNNVSLMQHHS RRPNRHLTASYPHFHFQEIPVNF FHSGRDSSESFGWNQHIKKDKE GHIMVKGSIQQEELTMLNIYA PNTGAPRFINQVLSDIERDLDSH KIIMGDFNTPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTEIITNCLSD PRAIKLELRIKKLTQNRSSIWKL NNVLLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKA VCRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIKKK REKNQIDAIKNNKGDIITDPTEI ETTIREYYKHLYTNKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEVVAIINSLPTKKSPGPDG FTAEFHQRYKEKLISELLPMPN HTALKKQTQDLSDCAMFLYY QSVSVQTAIINYHRLRGLNNRN LFLTVEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLTKMLICAALLGLFCMLLGL RWQVAELIGMTLALSSTAIAM QAMNERNLMVTQMGRSAFAV LLFQDIAAIPLVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSLRE VFSVAVALFLVFGFGLLLEEVGL SMAMGAFLAGVLLASSEYRHA LESDIEPFKGLLLGAVFTPRVVV NIYSSSELRTAKNYQANGKQKK PGVAILVSDKTAF/KPTEIKRDK EGHY\IMVKGSIQEEILTILNIY APNTGAPRFIKQVLSDLQRDL SHTLMMGDFNTPLSTLDRSTR QKVNKDTQELNSALHQADLIDI YRILHPKSTEYTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNTQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDMTYQNLWDT FKAVCRGKFIALNAHKKQERS KIDTLTSQLEKEKQEQTTHSKA SRRQEITKIRAELEIETQKAIQ KINESRSWGPPGNCQQNYRNSE SGEKSAPEGQAQHAGPTEGKV PTFLYVGKEKFPPSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVGIGDTHDSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMELEKIMAELECDDEWT SLSSRCNQLEERVSVMEDEMN EMKDKHRPKIKEWKRIYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQEEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNKDIQELNSALHQADLI DIYRTLHPKSTEYTFSSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELKIKKLTQNL STTWKLNLLKDYVWHKEM KAEIKMFFETNKNKDDTTYQNF WDTFKAVCRGKFIALNAHKRK QEGFKIDTLTLQLELEKQEQT HSKASRRINKIDRPLARLIKKKR EKNQIDTIKNDKGDIITDPTEIQ TTIREYYKHLANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDG FTAKFYQRYKEELVPFLKLFQ SIEKEGILPNSFYEASIIIPKPGR DITKKENFRPISLMNIDAEILNKI LASQMQQHIKKLIYHNQVGFH GMQGWFNHKSINVIQHINRTK DKNHTIISLDAEKAFDKIQQPF MLKLKTLNKLGDGMVLYKIIRA IYDKPTANIILHWQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AVRKEKEIKRTQIGREEIKLSLF ADDMIVYLENPIVSAQNLLKLIS NFTKVSGYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHRLANWIKSQDPISVC CIEETVHLTCRDAHRHKIKGWR KIYQANGKQNKTKQKKQGLQ ILVSDKRDFKPTKIKRDKEGHYI MVKGPIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDIANTPLSTLDRSMRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSDH SAIKLKLRIKNLTQNHSTTWK LNNL

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6932	37300	A	6983	599	1074	NPRAWKQPPPTSPQEFCLVCF VVHLQKSTREALNNKNIKPLLS TFSQVPG/SINHSSCENVLAHSL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCDTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLWPMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPVRVNTPGTKLPQPNRPV SLSFSQMKLLTSSHWSFHCPA *INPAQSSPGWP*PQLSGCPAF QFLSFG*KSLSSGNTASSSPLW FLCWCFNLVLQAKLPDGRPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLLTSSHWSFHCPA*I NPAQSSPGWP
6936	37304	A	6987	1	2021	PTRPAAQWRARAAEKMSPTP PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAI VSLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCDTIFTFVEKN VATWKSNTFYSAGKNYLLRMC NDLLRRLSKSQNTVFCGRIQLF LARLFPLSEKSGNLNLSQFNLE NVTVFNTNEQUESTLGQKHTED REEGMDVEEGEMGDEEAP TTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFLKYSEEVLAV FKSYKLDDTQASRKKMEELKT GGEHVYFAKFLTSEKLMDLQL SDSNFRRHILLQYLILFYLYKGQ VKFKSSNYVLTDEQSLWIEDTT KSVYQLLENPPDGERFSKMVE HILNTEENWNSWKNEGCPSFV KERTSDTKPTRIIRKRTAPEDFL GKGPTKKILTGNEELTRLWNLC PDNMEACKSETREHMP TLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRALKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRKQLLVAV QDQEGVHATPENLINALNKSGL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVRAPGVQEVTEDP RDPLAQLATRDRKERRGSLDH LALRVREAQLDQLVPPESVAA KDLKAPRAPKAPVPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGLSLGCLDLGD CQACLG YQACQAPRAPALLA HQRWCPWPCRMSQPQHRRT MAARLTGRTSQTNATIFQLRKK FLRMQSFSVKTS LHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRCSK*HWRH TVNSNFGPMGNPSHTTSSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNR TILASDLSGSDRWRRTY RCL*RHGPRFSSCRLSCRRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRF AAASCP THQVH VHRWRKPMVFLILESDLKYTV LSLPEECHTGAHEQSSHCLLSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEEEEEEE\ REEEGDEEQEEEEEE\EEEEEEEE EEEEEEEEEEEDDDDDNGLLQTL PGLHEMRVNLTRSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEEGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEE/DKEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEKVVE EEDEFIWFLGNSLYFPSFSHFA WSQIPSRDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAFOPGQQSETVSEK/ EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEI
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	

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6950	37318	A	7002	1	1226	MPSSKGVHSHSPRYLAADKDF KMINKELTAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFALLS FAFICVTDQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPSSLSDNLDFS KQDGNTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRRVHSDQTHSGKL*RGKGS W/DCMREKASQPFKAVVPIV*V /VPFENLQEGEEGRLECECPDEP RRVHVAGRSMYEGEVVNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEKIFLGHVRGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLPPLLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDVTITFLPLV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDRYRQIRPCTSLF
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNW MENAFDELT EVGFRRWVITNFSKLKEHVLTQ CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTSQELREAYTTE ERISEIEDQLNEIKHEDRIREK/R/ VKRNEQSLQEIWDYVKRPNLH LT/GVPESDGENGTKLENTLQDI IQENFPNLRQANIQIQEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGPIFNIL KEKNFQHRMSYPAKLSFISVGE IKYFTDKQMLRDFVTTRPALQE LLKDALNMERNNQNSLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVA VRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAA VHVFTSMK YLFVGKTKRYSIGFSVVYSTVA VLQNVKLN NVCSLGVGLMVFG LLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIRIEKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPFNILKENFQTRISH
6974	37342	A	7026	1	1080	

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6975	37343	A	7027	1	3501	MIVYLENPIVSAQNLLKLISNFS KVSQYKIYKIDVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY PGIQLTRNVKDLFKENYKPLLN EIKEDTNKWKNI PCSWIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPIYNHLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKLLDPFLTS
6976	37344	A	7028	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQT PADLQK/SGSDS REQNKTENEFD ELTEIGCRRWV ITNSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHLPGADRHLIQESTG WHLGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLT VRRKTNKQKG IVSTSTKRTSSEGHQHQRKVD KFTENGRNQHKKAENSKNQ ASSP\PKDHNSLPAREQNWTE N EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERV\SEIE DQLNEIKREDKIREKRMQRNK QTLQEIW DYVKRPNLHLIGVPE SDRENGTKLENTLQDI\QENFP NLARQANIQIEIQRTPQRYSSR RATPRHII VRFTKVEMKEKMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPFI NILKEKNF QPKISYPAKLSFISEEITSFTDK QTLRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLLEPQGPLRAGSSPAGK/IGGT LERRGMPWPGP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRDCSSRV
6983	37351	B	7035	743	1683	

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6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTRTHPVVIS VPECIIGIDILSSWQNPHTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPPTSPFNPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASFEW GPEQEALQQVQAAVQA\LCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

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7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAFael DKGWLVLWLEGKGVIGARRSW RAHSALIKICVQKIDSLPGKM SKGLLQQQKPKHLLHDLYKA MSTRWGVQKARLNCTALPPTG CVTLDPSTLTPQFPRQLSEDL LTREALEKEVQLRRQLQKEKEE LLYRVLGANASPAFPLAPVTPT EVEKERELRDLRDEQQRVLE GKNEEALQDPRLDPLTSTCTVH FEKPMNLNARLWKHAGREAV ACKVRGSELPKTMGTYPHGH DLQVRLHGVKGDHFGALRFDCP AGFWTCMGLPASFVPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQSNFALNAR EKALQQVQAQVQAALPLGPYD PADPMVLEVSLADRDAVWSL WQAPIGESQQRPLGFWGKALPS SADNNSPLERQLLARYWALVE TEYLTMGHQVTM*P/ELPIMNW VLSDPSSHKVVYAQWHSIIKW K\DRAGLAGTSKLHEEVAQ MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCLRAAFVFT RRHAPSAGRGFTRSYVSAGSW TETQQGLWGLSTKLGLADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLLFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKGCSKA RHLQYWSTKTPQSLFFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EIITNYLSDHSAIKLELRIKNTQ NRSTTWKLNN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNGSGMDQCDD GGGKILDPVYILTVELTGFAKG WKMFVSKDQSVNVLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEEKRELKLF SQRKRENLRGNVRPFPVTMT GAICEQCGGQINGGDIAVFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHHAEC KPRCAACDEIIFADECTEAEG HWHMKHFCCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRKGACPLS SVGPVIPSVP*NTQRT*RPQSRP LGAPWNPWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSCLPPEKVYPVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFPVTMTGAICEQCGG QINGGDIAVFASRAGHGVCWH PPCFVCTVCNELLDLIYFYQD GKIYCGRHHAECLEKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGQHWATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA VGRSPGAVPKLARTRARR\GAH AEPAQPAASEF*PAVSRRRPPVT ADGHAQPVQPDTPQPGPHLE EPGRALPLWEQDGAEPDPEPSA APRQCNIRTSYSPGGQGAGA PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDYYPGRLSQE SYSDMSSQSFSETRGSIQVPKYE EEEEEGGLSTQQCRTRHPISL KYTEDMTPTETQTPRGSMESLAL SNATGLSADGGAKRQEHLSRFS MPDLSKDSGMNVSEKLSNMGT LNSSMQFRSAESVRSLLSAQQY QEMEGNLHQLSNPIGYRDLQSH GRMHQSFDGDMAGSKLPGQ EGVRIQPMSETRRRRATSRDDN RRFRPHRSRRSRSDNALHL ASEREAISRLKDRPPLRAREDY DQFMRQRSFQESMGHGSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWPVDL DPESRLCCFPSLGLSANPTAVG LEEDREQDVGTSSRGGAWDTRI KRELEKMSEKCGGQINGGDIIV FASRAGHGVCWHPPCFVCTVC NELLVDLIYFYQDGKIYCGRHH AECLKPRCAACDEIIFADECTEA EGRHWHMKHFCCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQLGPSV MRSPLFWGVGIAAAALDAVLIR AHQRTQGCHHLSALLAFKKG SEKKEEEEQGVSRSSSLKVQA QELSATEDKGHISPPFWAVYH YASGECRGPYPYSHSLRLYSQ QALPTGRGPSSSQFPFCQFYCC YKKSLLCDCLSKSPAILEKAMR GIDQGQMTYDGGHWHATETCF CCAHCKKSLLGRPFLPKQGQIF CSRACSAGEDPNGSDSSDSAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAPPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAPRQCNIRTSYSPGGQGAG AQPEMWGKHFSNPKRSSSLAM TGHAGSFIKECREDYYPGRLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEGGLSTQQCRTRHPIS SLKYTEDMTPTETPRGSMESL ALS NATGKTCSVTFQAKETCR YQDAQFGVKARVKERQSLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFGAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIQEESEL CRTVDPL AGSYGGAIQQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRVI VGV T

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCSWFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLA KPIIEERLHNLLRLRYKPGSGISS RVVTPEVNEIVNPNATLDWQ LALRQAAGKTDLARDMLQML LDFLPEVRNKVEEQLVGENPEG LVDLIHKLHGSCGYSGVPRMK NLCQLIEQQLRSGTKEEDLEPEL LELLDEMDNVAREASKJLGPDK THLRRIRRDVLA TDPRPARDRR KACLHACVLRTPPLGAARAIQ QIDEAGGMAKAIEAGLPKRMIE EASAREQSLIDQGKRIVGVNK YKLDHEDETDVLEIDNVMVRN EQIASLERIRATRDDAAVTAAL NALTHAAQHNNLLAAAVNA ARVRATLGEISDALEVAFDRL VPSQCVTGVIQSYHQSEKSAS EFDAIVAQTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFDVDLSPMFSTPEEIARLA VENDVHVVGAISSLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGEQ KLVVTTGASGAPDRQAARCAA SAKISWYRSKGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKL RVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEG KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKL RVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFKGVGFLE APRGMLSHWMVIKDGIISNYQ AVVPSTWNSGPRNFDDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPCMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIADAIV SKKNAPGTMMILRDEEVPALFT NKISPHQLGLADVLSDLRFTGE FPKKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDITYTLPRLNQEEVESLN RPITGSEIVAIINSLPTTKSPGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKLQAQNLKLIISNFKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR/PSEI TPHIYNYLIF

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7049	37417	B	7103	I	1722	
7050	37418	A	7104	I	3513	
7051	37419	A	7105	I	2546	MSELPFTIATKRIKYLGIQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMNMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTempsNDTLDK ENVAYIHHGILCSHSGRVHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNHMIISIG AEKAFDKIQPFMLKTLNQLGI DGTYLKIIRDIFDRPIANILLNGQ KREASPLKTGTRQGCPLPPLLF NIVLEILARAIHQEKEIKGIQLG KEEVKLSLFADDMIIYLENPIVS AQNLLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPM TFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIIPHVYNHLIF DKPDKNKKWGKDSL FNKWCW ENWLAICGKLKLD PFLTPYTKI NSRWIKDLNVRPKTIKTEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNLIELKSFCTAKE TTISVNRQPTWEKIFAICLSDK GLISRIYKELKQRHKKKTNNPIK
7052	37420	A	7106	I	2575	
7053	37421	A	7107	I	875	
7054	37422	B	7108	I	3421	
7055	37423	A	7109	I	3790	MELKTKARELREECRLSRNRN QLEERSVAMEDEMNMKREG KFREKRIKRNEQSLQEIWYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTQPQRYSSRRATPRHIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	134	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPDAHVGC*SRSRKRPD RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPVL LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRGNGP PARSFCPSSGSRRRSSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRPVWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRVYHRSNHGTPPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCPQRFVDPK*I SSPD*AMNYYRKIHRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPLSSAGYP/GKRIRAQ NLIPASTTNGQLRIRQRRISQAR **TKRMARKGSISPISAVSNLN SS*ASIIVSSCIRCSALSPLSNIHK S*TAGPWGASSRKTNIGLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRPVWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAIKNDKEDITTNPTEIQT IREYYKHLYPNKLENLEEMDTF LDYTFPRLNQEEVESLNTSITG SEIVAIISIA YQPKKVQDQMDPQ PNSTRVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYQYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPITGPEIEAII NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMIISIDAEKASDKIQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLAIRAEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILTL RDVKDLFKENYKPLLNEIKEDT NKWKNI PCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEIWLAI GRKRK LDPFLTPYTKINSR WIKDFNIRP KTIKTEESLGIQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

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7081	37449	A	7135	101	1686	SIAYQPKRVQDQMDSQPNSTR ANIILNGQKLEAFPLKVTGTRQF SKENFE\PLSPLLFNIVLEVLARA IRQEKEIKGIQLGKEEIKLSLFA DDMIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNKWKNIPCSWVERIYIV KMAILPKVIYRFSAPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYQNRDIDQWNR EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLALCR KLKLNPF LTPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDIGM GKDFRSKTPKAMATKAKSDK WDLIKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRHMKKCSSSL AIRQM QIKTTMRYHLTPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQKRPLTKF NNASC*KLSIN/IVLEVLARAI RQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNER KEDTNKWKNIPCSWVERINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWNRTE PSEILPRIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCTAKETTIRVNRQPTER EKIFATYSSDKGLISRIYKELKQI YKKRTNNLIK KWKDMNRHFS KEDVYAAKHKMKCSSSLAIR EMQIKTTMRYHLTPVRMAI IKK SGNNRITIVLLPGSLIVRSFHVTL NAILLHPGLTLFSPSAGR RDIPR VAFSYLAFSAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

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7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPFKKSMNPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITDPTEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEIESLNRPITGAEIVAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASINLIPKPGDRTTKKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIQGMQGWFNIC KSINVIQHINRTKDKNHMIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVWVLLPPWRQS
7097	37465	A	7151	1	1914	

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7098	37466	A	7152	1	2200	MKLTTHRENMAITNGFCHHIA AQQNLYTNTLLAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSERDIDDARQN FLAQDALAQIQSOLDLVLNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPSNGYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGDDEEVFNALPG KVFSGLAAISPAVPGGAYQST GTLQTLNTAPGSDGVIATIELDE HTDLSALPDGIYAQNPKNLKIV ELKAPQLPRSLDDAQIALAVIN TTYASQIGLTPAKDGIFVEDKES PYVNLIVTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLTYGSGYLAGMKLGD TPLVEYTRDLRHRETLRSFGRY ELTTAYTPAGQLQSQHLNSLLS DRDWTWNGELIRISSPRQTR SYSYSTTGRLTGVTHTAANLDI RIPPATDPAGNRLPDPELHPDST LSMWPDNRIARDDNYLYRYDR HGRLTEKTDLIEGVIRTDERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLGRRVAKRVW RRERDLTGWMSLSRKPVQVWY GWDGDRLLTIQNDRTIQTIIQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHHP DMEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPVIGV AAHKELNNDYTSKKVMKPLIT SNTVTDEIERANVLKMNGKWY LFTDSRGSMTIDGINSNDIYM LGYVSNSTLGPYKPLNKTGLVL QMALDPNDVTFTYSHFAVPQT KGNNVVITSYMTNRGFFEDKK ATFAPSFLMNIKGNKTSVVKNS ILEQGQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7106	37474	A	7160	3	1743	DSPEARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPIGVAAHK GNPDQGTASMYHGWPDLHIH AEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELM GKFDEAQPNIIGITINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSLSTP AAPMVDSLIARVGVMAAGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPGELSARSGDA LQKAFTDKEELLKQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLDNRVPTCEIEKI EAILKELEKPAP
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPIG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTAPNTQTASPRALA DSLMLARQVSR/VKRAPTC WPGLDIIPSCALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDQPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGHIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVDANA GTESGHQGEESLFNRACGGGGT FFFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGRLLKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLLPKND FLFKLGLEGHPLPGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAIAIAQFNDDSPARKITRRWRIGEAADLVGVSSQAIRDAEKAGRLPHPDMEIRGRVEQRVGYTIEQINHMRDVFVAGDEKGYESFPWF IKTCA\HPSRGLYSVHI\NPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNPVCSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT TMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGSL PTDPHLMYYYQAPCMKSNNAL IVILGTVTLDVIGIGLVMPV\CR ASCGISSIPTASPVMTACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPVI GVAAHKAGNLSCQLH**IGQR AGRGGLRIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRNVFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGLRLRAEDVFPPG FGDFA\HFGNHHQNRIFALLGQ TSVDRLQLSQGQAVKGNQLL PVSLVKRKTTAPNTQTASPR LADSLMQLARQVSRLESGQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGLRLRR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKRLAGTAQGPGE EAPKGKKGKTEPGHERKGNWT GKGPIREGTSPNPPREHGGEC APPPPSAKRKQPKAQKRKANSN AHPRQPKPKKKRPKRQTNSRTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGTYIEQI NHMRDVFGRRLRAEDVFPPVI GVAAHKAKGLTALSPQTDWNR KRNSSKPLAQVQEEDSAWHPE CLQKTRQAWCDNLKTCHTSHG SVMAETA VINHKRKRKNSPRJVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNPLTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQCINAGHEMT KAIAIAQFNDDSPARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGTYI EQINHMRDVFGRRLRAEDVFP PVIGVAAHKGGVYKTLISVHL AQDLALKGLPGLLRIEGNDPQG VTSMYHGWVPDLHIHAEDTLL PFYLGEKDDVPYAIKPTCWAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPLMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVFIRD KLMERRNRRTGRTEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAY DLALKGLRVLLVEGNDPQGT SMYHGWVDPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELWGK/FDEGR SFMPGPP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATRLRIKEQRPYPYAHLQQA VVDPRRGHMLI/NVVRVTG DVGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEADGSRRR KAAALTESDYRVLVGELDDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGEAICPVRMFRMKLMETLN QCINAGHEMTKAI AIAQFNDD PGSEENNPALENR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGR LRAEDVFPPIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

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7169	37537	A	7223	1	1710	MLCTKWDKLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVS HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPFFAK RYTRSKPYYT\GDNGY\AAGWV AGYNFMLGSEKFTLTNWEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKKLADCPSPRPVFEALCICS MLDALLLLCPLDYHASCDNYS YALLDPQGFPLPHRRLWGPYID VDVPMHLHIQHAWAQDALLSC LYSDLLYMSSFYPYAGTLTRLM GVTSYNHKNTLLTYCITLMSTI RFAYDGDEEIAMKYTDFLKGE LSMNIRPLHDRVIVKRKEVETK SAGGIVLTGSASAKSTRGEVLA VGNGRILENGEVKPLDVKIGDI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPRLFA PQAPRLFDHRGFLT FASANFAA VAFCPRLFPPTGAAAVCPLPLF APRRFLPPPPRLFRCHGFFPPC LGFLTSAAFFLPPPLFALRRRG FLPFAAAAAFFPTRLFAPPPTQL FAPSPPWLFAAAAFCPPWLSAP TPPRLFVPAAAAFCCRDFLPPSP PLFRHRDFLPPPRIFVPAAL RAGAADSAAGSTGVLGQDLWS RCVVGTGMEAPGSRGGGGGLR EDIPLPPEFSPGPALSSCR*GNRR PEGEMTCQEPLLS/CSWIP*VKE FETNPDNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTWGGGFSGSMPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFQKQ LPKDAPPSEERLEESRILTLIIGAL GIAYLAMFYFSEHGFNITINTVNL MFMIAGLLLHKTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDDLQHLG VNVASLLGDGQQRSEVEMLG LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLAE AAYEKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GAIWSLNEAIKIGKYLKGS LAY AEDPCGAEQGFSGREVMAEFR RATGLPTATNMIA TNWREMGH AVIAQ\SVDIPLADPHFWTMQG SVRVAQMCHEFGTLWGSHSNN HFDISLAMFTHVGAAAPGNPTA IDTHWIWQEGDCRLTQNP LEIK KGKIAVPDAPGLGVELDWEQV QKAHEAYKRLPGGARNDAGP MQYLIPGWTFDRKRPVFGRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQPENLTL VVL SRNLPQLALPICVFVINCW KLA VSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDL PVVGYR NGVAQPLRLWQATHAHPFDLT KFNDGDFLRAEQQGINA EKLTK VLYPNDNHTAGKKLR LMQQYF QCACSVADILRRHHLA GRKLH ELADYEVIQLNDTHPTIA IPELL RVLIDEHQMSWDDA WAITSKT FAYTNHTLMPEALERWDVKLV KGPLPRHMQIINEINTRFKTLDL QDAEHRPLKMRGCLLCQCHTL FQKGHRFFT GAGGNRQNNVIE HLVAASRYRFTTASRRPLFTAG FTLLTAFLFHSNFAEGVNSLMF MKNLTISGGFLLAITGPGAYSI DRLLNKKW
7176	37544	A	7230	1	660	

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7177	37545	A	7231	545	1322	KHAEHLGQATHAHPFILTGFNP GYFL\RRQTTRGINAEK\LAKIFF \PKANHFAAGKKLRMLMQQYFQC ACSVADILR\RHHLAAGRKLHEL ADYEVIQLNDTHPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNHTLMPEALERWDVCLKVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVVAKLAVVHDKQVH MANLCVVGGFAVNGVAALHS DLVVKDLFPYHQLWPNKFHN VTNGITPRRW\IKQCN\ALAALL
7178	37546	A	7232	641	874	KYPTPGRDLRMFITGLSERL*EI TSLLKRSITGDKYSLRPLTANSV TSVTHFSFGRVALKSLSSVRAV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSIRHKSLLTSL/HVLH SDQGWQYRMRRYQNILKEHGI KQSMSRKGNCCLDNVVECFEG TLKSECFYLDEFSNISELKDAVT EYIEYYNSRRISLKLKGSNSN
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFSEKQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRGGHEAPS GPGEDGMDAPAIAAGTFSPREA STLPVQVS*VCRLNCCSRDVPK ATRVPL/EKLAGPLRHPLFMLF QTCLHLSLFTHHFADDSRRLQIF SVGFVAGLKQYRRDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDGLPRFQVRTHFG QDAFCIVVGNTDRDDVHGGQ RIGEREFQHHPNPLWRFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSIRHSKSLILTSI/HVLHSDQGWQYRMRRYQNILKEHGIKQSMRKGNCLDNAVVECFFGTCLKSECFYLDEFNISELKDAVT EYIEYYNSRRISLKLKGLTPIEYRNQTYMPRVNCPFLDTLRIPDIGGVVRARAIAKLLNDTDMAIIDKRRPRANVSQVMHIIGDVAGRDCVLVDDMIDTGGTLCKAAEALKERGAKRVFAYATHPIFSGNAANLNRSVIDEVVVCDTIPLSEIKSLPNVRTLTSEKYTAARFTRDLIAGITVGIIAIPLAMALAIGSGVAPQYGLYTA AVAGIVIALTG GSRFSVSGPTAAFVVILYPVSQ QFGLAGLLVATLLGLDFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAAFFVG*AKAPRNGTQ
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPGL*QCGQLQKLIGISIGSLRGLGTKCAVSNDLTEQEIRTL EHCPSNFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLNQEGSDNEKIALQLSLDDANLRKNEL ETE/Q*VLVPINFPLTTAFVSHRFRLVNQRLLEVQSQVEELQKSLQDQGSKAEDSVLLKKKLEEHLEKLHEANNELQKKRAIIEDLEPRFNSSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKKELQIQVEHYEFQTRQLELKAKNYADQISRLEERES EMKKEYNALHQRHTEMIQTYVEHIERSKMQQVGGNSQTESSLPGRSRKERTSLNVFPLADGT/CTCTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAVPWSERLLPVAGVPRSLGREPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFGFVLRG AKADTPIEEFTPTPAFPALQYL ESVDEGGVAWQAGLRTGDFLI EVNNENVVKVGHRQVVMIR QGGNHFLFKVTVTRNLDPDD TARKKAPPPPKRAPTTALTLS KSMTSELEELVDKASVRKKKD KPEEIVPASKPSRAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAMTPTVPGPSKAPF LGIPRGTMRRQKSIGKKCGTPP QKLPLGFQTQP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRILGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQDLQFAAIGSPLTES LNLHSRQALRDCCWHTHTIPPNP *ICTHARR/WRDCCWHTHTIPPNP DTVWRFLSPVSAAPKQERAS SEPCSWSHWCRCSLSWLSSIPT GCTPVCSSICLLMATFPMFSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKSCKIKEVPIFVFLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIPDYKWWWS WQVCRRPKQWGTQGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSLIEHIQVKNAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKPEPKPKAP AKKGEKVPKGKKRKADAGKE REGYWRSQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAA HAGVAVAASARLPPCAGCGLR AAPLLASSARLRALRRPAGGL WAAGCAPAAGQLCTAAGSAAP GALQRCGGRHGITRPWCAEIAS AG*GSGGSRWGCWPCPLLRT CTSHPLSSPLPFTHGSLQASFSL TRDCVSSTKTLWWLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSW RS/SPRRRAGTGPVQEEVALKP VLLRHPVQPVIRVKLPRICLLEE AGQLRGVHRLESVEEYYEADG AEWGPPDTAMLESLPEMAGKH SLPQLLDSSASQPGAIQIIYS\IL YQIHLYKHLLSSYWGASQWKH TRHTHYFESLW*EHLPS*KYQK REKWADLTRSLENP\GQQPRDS WEPGFWALPQAGDSCQTSQSP RKPTGPPKPSPPPEEGRLLR/CPT MPVMRKSLTE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEVALYM FLQNPDTAEVLVAMSCFCHLCE EADTQCGVDEVS\HNLNPNSN TFMEFACQQCDVNSPPVGPVSE HKGSMISVMSSEGNADTPVSK YMDQLLSLMVCNLEKVGLQIP TNDKDLVLLTDTNTQFVEQTL DIMKNLLDNHTEGSPEHLEQAS IETMMLNLVRNKMVEYLTDW VMGTSNQAADDDVKCLTSRI/D HPGGTLL*GQPRPELPAGLPRQ PASPGPRHPGASCGWPRAPDS APGGPGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPATLPWSSVTDGTSYSA GRRERGGEGERGRRVRVADH RSALPRTGPQGSEELANMQGL WERLERAVSRLESLSAESHPP GNCGEVNGVIA\GVAPSRGKPL HKLMDSMVAEFLKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEKI KEIQTFQRE/RTRGSNMFNHLA VSESIPALGWIAVSPKPGPYVK EMNDAATFYTNRVLKDYKHSD LRHVDWVKSYLNIWSELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGPGLPPPPPLPPPGPP PLFENEGKKEESSPSRSALFAQ NQGEAITKGLRHVTDDQKTYK NPSLRAQGGQTQSPTKSHTPSP TSPKSYPSQKHAPVLELEGKKW RVEYQEDRNDLVISETELKQVA YIFKCEKSTIQIKGVNSIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNILIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELERLQKEEEERKKRL QLYVFVMRCIAYPFNAKQPTD MARRQQKISKQQLQTVKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRSLPEID GLSKETVLSSWMAKFDAIYRG EEDPRKQQARMTASAASELILS KEQLYEMFQNILGIKKFEHQLL YNACQLDNPDEQAAQIRRELD GRLQMADQIARERKFPKFVSKE MENMYIEELKSSVNLLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVIILTCQ LQWQWQHGGVHAHQLWQLA SGYRDACFCVSTYSSGPSEFPGP TLGTLNELAIDLEERKHRRKAK VWKGEGLRSPRQSLLAFRA VLASRGTRSCHVSPYLGVS GAL SSPNPHPSTTGAGPIPPVQRWGL PQINQKNREIAIPLTGMSTHLR RGCKNMSRFSPSLHCCTTPISTN FTDPGSHCKGAHGDIQLLQNL KGALPMSINRSYFNAHPLLQISE AVTFKDVAVVFTEELGLLDPA QRKLYRDVMLENFRNLLSVGN QPFHQDTFHLGKEKFWKMKT TSQREGNSGGKIQIEMETVPEA GPHEEWSCQIWEQIASDLTRS QNSIRNSSQFFKEGDVPCQIEAR LSISHVQKPYRCNECKQSFSD VSVFDLHQSHSGEKSHTCGEC GKSFCYSPALHIHQRVHMGEK CYKCDVCGKEFNQSSHLQTHQ RVHTGEKPFKCGQCGKGFHSRS ALNVHCKLHTGEKPYNCEEKG KAFIHDSQLQEHRHTGEKPF KCDICGKSFRVRSRLNRHSMVH TGEKAFRCDCGKNFRQRSAL NSHSMVHIEEKPYKCEQCGKGF ICRRDFCKHQM VHTGEKPYNC KECGKTFRWSSCLLNHQVHS GQKSFKCEEKGKGFYTNRRSS HQRSHNGEKPYNCEEKGKDYK RRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	I	2692	MDPGTLQSASQGPTAINPCDYV LKRRNIQTSWQRLTPIKWHVYI LMIGPGEKEAGRNLGIFGKWTP FPKIPAKRLRESNCPVDAQEIW LPQAFREYLGRRGNFGPGRRTC EFWEVESICSVESWELWLRQA DSGDSGKCSPDACGIIDTSGLR AGHCYLTRLWHVSGRIPPSFKL HHPGVCKFPKVGGKMTTFKEA VTFKDVA VVFTEELGLLDPAQ RKLYRDVMLENFRNLLSVGHQ PFHQDTCHFLREAEKFWMMGT ATQREGNSGGKIQTEMETVPE AGTHEEFSCQIWEQIASDLTR SQDTTISNSQLFEQDDNPSQIKA RLSIHVKTETSEGRCKKSFSD VSVLDLHQQLQSREKSHTCDEC GKSFCYSSALRIHQRVHMGEKL YNCDVCGKEFNQSSHQIQHRI HTGEKPFKCEQCGKGFSRRSGL YVHRKLHTGVKPHICEKCGKA FIHDSQLQEHQRIHTGEKPFKC DICCKSFRSRANLNRHSMVHM REKPFRCDTCKGSFGLKSALNS HRMVHTGEKRYKCEECGRFI YRQDLYKHQIDHTGEKPYNCK ECGKSFRWASGLSRHVRVHSG ETTFKCEECGKGFYTN SQRYSH QRAHSGEKPYRCEECGKGYKR RLDLDFHQRVHRGEKPYNCKE CGKSFGWASCLLNHQRIHSGEK PFKCEECGRFTQNSQLYTHRR
7249	37617	A	7303	I	585	KRTAISPDAFETRQDLNEEEA AQVHGVKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAAL*PIQN YQANLVNTFPYSNNSGGRG/RL MKTV/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQTRSPQKEDRIPMADE YY
7250	37618	A	7304	I	366	

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7251	37619	A	7305	1	1265	RYPGIPGSTISSLVEEHAPPSW EPQHQNVEATVLVDSVLRPSM GNFKSRKPKSIFKAESGRSHGES QETEHVSSQSECQVRAGTPAH ESPQNNAFKCQETVRL\QPRID QRTATSPKDAFETRIQDLNEEE AAQVHGVKDPAPASTQSVLA\ID GTDSADPSPVHKDQGNEADSA PEDLHSGVTSRLLL/YHITDGDN PLL\SPRLFPLSGQSQRFNLDPE APSPSTQQFMMPRSSSRSCG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAAALTCLKERREQLPPQE DSKVTKQDKNLIKPLYDRYRII KQILSTPSLIPTIVSQDTCMLLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAPAAPGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISSRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGRLGS*KAQEVA QDPGSDEGRGLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSAIHVE VAELEANLPCTCKVHFPDPNKL HCFQLTVTPDEGYQGGKFQF ETEVPDAYNMVPPKVKCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLSRK*CSAASIFSG SSKFKRSVNKEFNPQTTSFNVL VGAQPVPSIECSLNKL RHISPV VIVGVPSLVQAFHFGRRHHVV RRELQFQTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	

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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGGEAN LVDVSGGLETESSNG\KDTLEG AGDTSEVMDTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDIIPFIDKYWECMTTRHRPGK TTWPNNIVKTMSKERDVFLVK EHPDPGSKDPÉEDYPKFGLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGGTTGTTKKARSDPLFSAQR LPPHGYPLEHPFNKDGYYILA EPDPQAPDPEKLEIDCWAGKPIS GDLYRACLYERVLLALHDRAP QLKISDDRLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMPP DTAARLGWSQPLGNLQAPLG DKFSYSWRSKKGTFHQSIGKH YSSGYGQGDVLGFYINLPEDTE TAKSLPDTYKDKALIKFKSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIFEGVYF PAISLYKSCTVSINFGPCFKYPP KDLTYRPMSDMGWGAVVEHT LADVLYHVETEVDGRRSPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTLSVRPVGPAATTR SHALGPRPGARSSFRRLCELRR CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEAF AGIRSSHIKYICPHAPVRPVTLN MNVAMPSWF\DIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRILG\GFSQGGALSLEYALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLLTLVNPAN VTFKTYEGMMHSSCQEMMD VKQFIDKLLPPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLKSKHT AQMGLVLTANESQPLVHETAL KNKKPQSWFPNPCVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGRING*KLLSSFFG QQVRT**R/CSELTpkQEFFKGS ESSNRTSGGLFGVVPGAAETGD VCVYTFKELEGQTSDEEGSRLE NDFLEITDEDKKKSTKDRYDKY KEVGEHPPLSSSPVEHEGVKLG QKSYRCDECGKAFNRSSHLIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRTHTEKPYECSECG KAYRHSSHLIQHQLHNGEKPY KCNECAKFTQSSRLTDHQR HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRIHTGEKPYECS ECGKAFSRSSGLISHRVHTGE KPYSCIECGKAFNQNSQLIEHQ RMHRGKKVYKCKEKGKAFGLS KCLIRHQLRHTGEKPYKCNECG KSFNQNSHLIIHQRIHTGEKPYE CNECGKVFSYSSSLMVHQRT TGEKPYKCNDGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQRTHTEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFSLSD LKQIKVFFPGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGSGGSGAGGPAGRG LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLEIMKEFKSQSIDTPGVIRRV SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLNISPLTSQENSH NHGDGAEDFKQQVPYKEDKPQ VPLESDSVEFNNAISYVNIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRGMSEEEVFTEVANL FRGQEDLLSEFGQFLPEAKRSLF TGNGPCMHVSQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDLKDG LFTIPLAE QDCEWFAFTIPVVNNLQPAKRF HCFTDGSNNGKASYSGSKNKV FQMSYTSAQKAELVA YIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRAHTPLPGPL TEGNQMADRLVANAISSARHF QQHLL/THSHPPGDRSRSCRHW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTG LLLGRSSLNIK AVQVQTGVTDSYNGEIQIVTS TSVPWKAKPGDHIAQLLIVPKK FEG LKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPT FSPWN SPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFHWKVL PQGNQ QPIWI PSRYLKPYHKPD AKEE IPEGSQ GFPVAAMSRLTLRR TPTVTSNT HRTQPPTWGQIEKL PQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTA FNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLEECALELGKKS LQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAQKVE LVAVIEVLTA FDM PVS MIS DST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTA VR CFA VMGIP ASTTT/DNAPGYTSQALATFFS MWNIKRITGIPYNSQGGQAI VER MNL SLK QQLQKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSGVGVAPSKPARSAVDL CCTKAVSLLPGEPQKVPARVC GPLPAGTVGLLLGRSSLSLKEV QIHTGVIDSDYKVEIQIVVSTSV PWKAEPGERIAQLLVVPYVGT GKSEIKQTEGFGSTNKQKAA Y WVNQITDKHLTCEITIQQKKFK GLVDTGADVSIISLQHWPSMWP IQSTQFNIVGVDGSSNGKASYF GSKCKVFQMPYTSQKVELVA IIEVLTTFDMPINVISDSSYV VHS TQLIENAQLQFHTDEQLMTLFT QLQTAVRSRMHPFYITHIRARH TPLPGPLTEGNQMADCLVATA VSNARHFHNLTHVNASGLKCR YSNTWKA AKAI IQR RPTCQMV HSSSFTGGVNPQGLEPNSLWQ MDVTHVPSFGRLAYVHVCVDT FSHFVWATCQSGESSACVKHH LLQGFVVMGIPASIKTDNVP GY TSQALATFFSMLNIKRITDIPYN SQDVEADANADVGVVDVDA DA DVDAEEEEVFTDADADA EVDVD EDADAERLRCNADESDLDLD VDAEMDADVDTNLVDVDA AVD VDVDADADVDA D TDVDVDTG LNLEADLDLDVDA DVDTDA DV DRDADVEVAVDADATV NADV DYVDVDTDSD
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

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7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAAHDDYCV WYSLQRTSPEKNERVRQMRPV CDCQAHLLWNRPRFGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHHRHLVET SLGEQVIVPPVDVESC PGAPSV CDIQLNQVSPADFTVLSDVLP FSIDFSKQVSSAACHSRFEPL TSGRAQVVLSSWWDIEMDPEGK IKCTMAPFWAHS DPPEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLLVRN DCVQIWCESMISHSGFDLHFS DQ*/WMSISSC/DFLAA*MSSFEK CLFMSFAHFLMGLFVFFL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVTLTTKVCSFTPEASETTNPPG GTNNSRRTALRAVALTAKVRS FTPRGSAASFLKSVRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAAARKTVG VQGVGYSLPRKLCPLFSRTTYP HTSLRKDCLES DTTAE
7318	37686	A	7372	2	394	HLFIYLLVLLWCPGW PQTAG LKGSSCLSLLSNWNYPPL*AL LLGTQKLPRVWNFIMVRRIQDG VKPSVSIAEREMKSRKSAASLL SQRDHEPTRRKKLRTHPNIRRN KLQTRHLKSCNTHCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQHVWSCSFLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPSWLHLVDPAPGLQ VELPASPTRYAHTPQPLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVGCLFTLMVVSFAV QKLFSLIRSHLSILAFVAIAFGVL DMKSLPTPMS*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMMDRKNQ YRENGHTAQGNL*IQCHPHQAT NDFLHRIGKNKLASNM
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFVLVLLIEMLCQFW IFPAFSCRHLVL*ISLYTL*MRP RDSGMWCLCSRWFQRTSLFLA SFRYPSSHSGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RRIK*T**KMIK GI/VTDPTEIQTIREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPIITGSEIEAIIISLP TKKSPGPDGFTAIEYQRTNDKN HMIISIDEEKAFDKIQPFMLEM LNKLGIVGMYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAIRAIRQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSSENTINT STQIN*KI*KKWIHSSHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTSNYTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTKTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYPAV*GVSVPPLGGASQL GCSGVRGQGPT*GGSLPVLRS AACWENHCSLQSCQTGTFKSA EVTAVFLFVCALPPEVEPTAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGCGGFVKSDVEINYSLI EIKLYTKHGTLYQTDCAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVL SKGQPL GPAGVQVSLRNTGTEAKIQSTV TQPGGKFAFFKVLPGDYEILAT HPTWALKEASTTVSVTNSNAN AASPLIVAGYNVSGSVRSDEP MKGVKFLLFSSLVTKEDVLGC NVSPVPGFQPQDESLVLYCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVS LGVPCPAASAAASGD ASR*MATGRGGGGGGVAALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCVKRGFC*HH*HEGCQ SRLLLRCLLCSTAI
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

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7361	37729	A	7415	984	3112	MWQETFFRMENLQLIILILGSP SQLHFPVIRNNQGWTLYHQWP HFLNRFSSRLSNSSLLNQLKFTC ANCKKPLQKGQTA YQRKGS AH LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFCSITSCLISL/YEEQQNP TKG\ALNKSRTCICGKLTEIRHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPSKGA GNNVLVIDGQQKRFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTTCTGCRTQC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCVAKFQALSMQSSPNGQFV APSDIQLKCNYCKNSFC SKPEIL EWENKVHQFCSKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCEGCKLLYKQDFAR RLGLRCVTCNYCSQLCKGGAT KELDGVVRDFCEDCKKFQD WYYKAARCDCKSQGTLKERV QWRGEMKHFC DQHCLLR FYCQ QNEPNMTTQKGPENLHYDQGC QTSRTKMTGSAPPPSPTPNKEM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDDTWRT EYVPVPIP VPVYIPVPMHMY SQNIPVPTTV PVPVPVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMTD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDLWLPCG AAGAGGLQSARSYGT VGEASV AEHPW/CAPGGCMAGCGSLAA AASPLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRRLL SCSSEEGERIAQLLLLPYLKLS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSHAINQWPQHWP QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	

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7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGSRL LPRVRGKRHLPRARLARQCEAL SPWGFRCFRNHHQTGFSLAGA NQRGPLAATLSGPGGEGQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGADVIPSCLALPRIETELM GKFEDEGKLPTDPHLMGLAIET VAHDYDVVIDSAPNLGIGTINV VCAADV LIVPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFE PD VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMVLKNVVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIWEPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVCAADV LIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAARFPV GKPVVPAALMNRPTRRGEAVC VLGARVVFLFTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDDTSGTVV/RRPFP PVIGVV FHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHGWPDLHIHAEDTLL PFYDPHMLRLAIETVAHDYD VVIDSAPNLGIGTINVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFE PDVRILLTKY SNSNGSQSPWMEEQISDALRIS QRRNISSKFIQSACITLTTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCN SPIRSKSPLPIRPRASITLILVSM MRMVRA TISCAILVSRCPAISP PLCTAFFRPICAAGVPVFTLFTT TP*SLPLLLISAPSMPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNPSGLGMILM *SRFIVFTKLSAIPLLSGLRTAVF FGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVMMAAGIFLIMCG VWLGFGGVLDPTKSSGYLIVDI YNEIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMVSLLSR PLKLIRSPYIILSAT*VIGQIMPAQ FITSASGLGMLLMVPLFPTLVSL GVSRLSAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHA HNPVASRVILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSL FHKWC WENWLA VCRKLKLD PFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSLAIREMDIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHLKSTEYTFFSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFFETNENKDDTTYQ NLWDTFKAVCRGKFIALNAHK RKQERSKIDTLTSQLKELEKQE QTHSKASRRQEITKIRAELEIE TQKTLOKINESRSWFFERINKID RPLARLIKKKREKNLIDAIKND KGDITDPTEIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NEEEVESLNRPIGAEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLFQSIEKEGILPNSCY EASIIIPKPGRDTTKKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRAKDKNHMISIDAE KAFDKIQPFMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKE KEQSWRHHTT*LQTLQGYSNQ NSMVLVPKQRYRSMEQNRALR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSKRNYHQSEQATY KMGFNFHLLI*QRANIQNQ* TQTNLQEKKNQPHQKVGKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDA EKA FDKIQQLFMLKTLNKL GIDGT Y FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVS GYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGS LFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMD FMSKTPKAMAT KDKIDK WDLIKLKS FCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLNYMKNAEASRADAINW KKGYY/LVMEDKMNMKREGKF REKRIKRNKQSLQEIWDYVKRP NLRLLSVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTAEEY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPGRDTTKKE NFTISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIQGMQG WFNIRKSINVIQHINRTKDKNH VIISIDAEKAFDKIQQLFLLKTL NKLGDGTLYLKIKRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAIRAIQEKEI KGIQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIMKMAILHK VIYRFNAIPIKLPMTFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKCLKLD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKKKRE KNQIDTIKNDKGDITTDPTIEQIT IREYYKHL YANKLENLEEMDK FLDTYTL PRLNQEEVESVNRPI GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLFQPIE KEGILPNSFYEASIIIPKPGRDT TKKGNFRPISLMNIDAKILNKIL ANQIQQHIIKKLIHHDQVGFIPG MQGWLEVLARA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMTFFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQNRDIDQWNTTEPSEIML HIYNHLIFDKPDKNKQWGNDS LFNKWCWENWLAICRKLKLDP FLTSTYTKINSRWIKDLNVRPKTI KLEENLGNTIQDIGMGKDFMS KTPKAVATKAKIDKWDVIK SFCTAKETTIRVNRQTEWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSSLAIREMQI KTTMRYHLTPIRMVIIKSGNN RAPGGRGGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIIKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDP AIP L LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

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7414	37782	A	7468	965	4421	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFPSAPHTYSKI DHILGSKALLSKCKRIEITNYLS DHSAIKLELRINKLTQSRSTTW KLNNLLNDYWVHNEMKTEIK MFFETNENKDTTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLELEKQEQRHSPSR RQEITKMRAELKEIETQKTLQKI NESSSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRLVRLAGKL GKQVELTLVGSSTELDKSLIERI IDPLTHLVRNSLDHGIELPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STAEQVTDVSGRGVGMDEVKR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLLTHGIGQF ADVACAGPLLAELDALGKAL KEPARPMVAIVGGSKVSTKLT LDSLSKIADQLIVGGGIANTFIA AQGHVVGKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKSVDVKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEFPNFRKGTEIVANAIDSEA FSIAGGGDTLAAIDLFRIADKNS YISTGGGAFLEFVERLTTLTQLL HDQGYVTQAIGKWHMRETTEP QPQNVGFDDFRGFNSVSDMYT AWRDVHVNPEVALSPDRPA YI NQSPLSKDDVHALRGGDQQA I ADITPKYMADLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAIAFDVQPGRGDYAGNQRHH NQYNQHQAH*SWQRCGIGDGL ARFARHNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPD R VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGGLKPV HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVSRMGTRSSYSRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLRLSEMPRKQGDYRTRI/C EIRGRVEQRVGYTIEQINHMRD VFDRRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTSGTVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAARHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDEGNYTSGDTHLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNTNIQTDDTSGTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRRSKISLQTGSQIER AFLQAPVEER*SMACSK/YSSHP DLTFTNFIRFTYNIF*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKHIEKLQC G/ECSQTTQQAWEQSAHQHIR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTA VRRC SQ TTQQAWEQSAHQHIRH*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSSVICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRFPQDRKAGECLLHEY EDLVPIRDLRLFPGGRYLPRA KHVAPSEPDP TIRVGPWSQSDY QTDDTSGTVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSC LGTAGQTDDTSGT MVQY

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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGGLDD/HRRKILNTAYRSR KLQASC*KSAERAWKTKASLT VNGWMKKIRCKTPMCRPTVR* SIRILIITTPRVPSPRS*LKPPTS CT*CIFTQPTRC*KMTTCWRCS TSRKSSGHVVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRK RNIWCAPAAICKRSTTLITSF*K PVKMACPFICAMLRRLARRC AGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNIDS WKNAGRVFKDSDFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGE RKTYQNVQQFIDEGNYTSGDN HTLRDPHYQNTYIRLEPFKINVL EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRR VNNYDIIVMSNSFNQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLSCCTYRKRYRVL VGELGDEQMAALSRLGNDYRP TSA YERGQRYASLLQNEFAGNI SALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAF*SASPD RADSSPG*EK RATT D/SRQFGGVDTAGNNLT*NIFRI SQRRNISSKFIQ*ACITLTTFIST CWAIIVTQSG/LMQPSAHHPAR QPEHDIAFGKCSSSVSVHLA/LG SGSEGATCFARGR*RPPGNSLN VSRMGTRSSYSCRRHSPAFHRS TPDAPTGH*NCCS*L*CHSY*QR A*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVSEFLHQDTWVGNAV ERLADALSQQNVTVIKSTSFDD GFAILSSNEAIDCLMFSYQMEH PDEHQNVRLIGKLHERQLNVP VLLGDREKALAAMDRDLLEL VDEFAWILEDTADFYRRTAPVA RE*TRYPGSCWPPLF/TAPLMK YS\DIHEY\SWAAPGHQGGVGF TKTPAGRFYHDYYGENLFRTD MGIERTSTAVSLLDHSGAFGQS EKYAARVFGADRSWSVVVGTS GSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQIKEEDVLK FLAAGTHLGGTNLDFQMEQYI YKRKSDGIYIINLKRTWEEL\LR QPRA\MVPIENPAD\SVISSR\N TGQVCGTVRAV\LRFLAATGAT PIGG\RFPTGTF\TN\QIQASLPGS PRAFLWVT*PPGAEPALSRAS LC*PFLPLALVNP/SPLRRYVII AIPCNNKGAH\SVGLMWWML AREV\LRMRGTISREHPW\EV PDLYFYRDPEEIEKEEQAAAEK AVTKEEFQGEWTAPAPEF/TLA TQPEVADWSEGVQGAPLVP\IQ QFP\TEDWSAQPATE\DWS*A\P LAQATEWVGATTDWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSL STMIKWASSL*REIYSTKCPQEK AGKIQN*HPNITIKRTRKARANT FKS*QKARNN*NQSRTEGNRDT KNPSKN*/MPGAGFLKGSTKLI DR*QD**RKKERRIK*/IAIKNDK GDITTNPTIEIQTIREYYKHL YA NKLENLEEMHKFLDTYTLPRLN QEEVESLNRPIGAEIVIE*SIAY QPKKVQDQMDSQANSTRGTRR NWYHSF*TIPINRKRGNP*TLM QKSSIKYWQTESSSTSKSLSTMI KWASSLGGKAGSIYANQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7453	37821	A	7507	1	1577	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLDIYRNLHP ESTEYTFPSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRJIKKLTQNRSTTWKLN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQE SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDK GDMSTNHTEI QTTIREYYKHL YANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQ/IEQSWRHAT*LQTLQ GYNNENSMVLVSKQRYRSMEQ NRALRNNATY LQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVYVPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*AWMMFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYMCHIFLIQSIIVGHLGW FQVFAIVNNVTINIRVHVS L*QH DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFNHG*TS LQSHQQC KSVPISPHPLQHLLFPDFLMAIL TGVRWYLIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPE SLGRIQSSV*RE IYSTKCPQEKAGKIQN*HPNITI KRTRKARANTFKS*QKARNN* NQS RTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSSGL*FSLK RSFTSLVSCIPRYFILSE AIVNGS SLMIWLSVCLLLVYKNACDFCT LILYPETLLKLSISLRRFWAETM GFSRCTIMSSANRDNLISFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDEEVLAAHQEIEVAKA SPSKGNIIHFYKGVYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPLQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWRSPYFFSPKPVPP QLLGGQPAAHRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPD METPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTTSSPLSG SSSSSSSSSRRGSQLNVSELTP SSHASALRQYQAQQAQSSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHPHPAHHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQPLQPPASVGGGGGASSP SAAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRKRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSPRDVLV TKSASELTQWTEGHSGDTPTT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTSLDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLVLMALSS LIVILLVVFALVLHGQNKKYK NCSTRQGISTMEESVTLDNNGGF AALELSSRHLNVKSTFSKKNGT RSPRPSPGGLHYSDEDICNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRVTV*SLSRL SLICYTFCIGAPSHLSVGSLLIAT SFIVSNRPCRAPYVDTIYRLPSP LRLAGHRTLPLKPSFRRSPPLL YYPSPRPPAHYPLSPSSEPNNRY TMALTAVPYPYTSPLQAFPLH SRIPQLQLFLLTNSFTSRTPEP VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSVAITTAADRRTAAGAIS YPTK*S*SEPIQEGQPEEQ/RAN YPNGTYPTSLRHLERLWLSAL SVKARF/YHQQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLLKWDGKTGTGWDIPD YSAAPPEAVPSLNNPQTFSEQK LDEALYHGAVLRVRPKAMTVA VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAAY KLMWLHRHRWLKCKSARRPQ YQSGYTDDRHSRSVKASPTAG LPSLTHEQQQKAVERIQELMAQ GMSSGQAIALVAEELRANHSGE RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFKSLVLLDKPGRQELIDDL NKRTDNFLTDSGISVSDWIDAA TWEVFSSSLRELLGIIKNIIRLAS QDLHGVLSSSETVAEDIWCRILD TVTRKGEHSRRIHSADDKSYLR PDLLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIKRRERLKNVSFVSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSRGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTGGGKKGSKKKVVDPF KKD/WL*YVKHPAMFNIRNIGK DVGSPRTQGTIAS\DLGKGRV FEVSLADLQHDEVAFRKFKLIT EDVQGKNCLTNFHGMDLT\RD K\MC SMVKKW\QTMIEAHVD VKTT\DG\YLLRLFVGFATKKR NNQIGKPF*AQ\HHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKVQAEVALDGNGELVG YYSKASAGDTQANRVWSGPPA NSNRPA AEGPERNTININKKDIN TKTPSVGHRHQRPKVDKTTKT RKTRAELKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTKPTPITRGGGFLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIHV
7484	37852	A	7538	502	648	

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7485	37853	A	7539	1	1169	PPLLIPRQTGSGVDLQQTPTDLQ LRVLTVRRKTNKQKGHPHQNSI CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQQEELTILNIYTPN TGAPRFIKQVLRDLQRDLDSHT IIVGDFNTPLSTLDSSKRQKV DIQELNSALYQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCNRTEIITNCLSDHS AIRLELRIKKL TENRSTTWKLN NLLLKDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDTGKAAC RGIFIAINAHKRNQKRSKMDTL TSQLELEKQEQRHKSASRRLN QEEVESLNKPRTGSEIEAIINSLP TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	1	404	MDEFNLNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKSPGPD GFTAIFYQRYKEELVPFLKL QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LTELEKTTLKFIWNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSL FNKWCWENWLAIW RKLKLPFLTPYTKINSRWIKD LNVPRPKTIKLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTKWEKIFTTYSSDKGLISRIYN ELKQIYKKKSDNPIKKWVKDM NRHFSKEDIYAACKHMKKCSP SLAIREMQIKTTMRYHLTPPSLL IPRQTGSGVDLQQTPTDLQLKV LTVRRKTNKQKVHHPHQNPICTS PSSKTKELEKQEQTHSKASRRQ EITKIRAELEIETQKNLQKINES RSWFLEKVNKIDRLARLIKKK REKDQIDAINDKGDITDPTTEI QATIREHYKHL YANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWSVPPTNSNRP AAEGPDC*KEN*QKGHPHQNP CQSPSSK\PKVDKTTKMGGKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKY\KDLMELKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNMKREEKFREKRI KRNEQSLKEIWDYV\KRPNLPLI GVPESDRENGNKLENTLQDIIQ ENFPN\LARHANIQEIQRMPQ RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLR LTAGKFIALIAHKG\NQERSKIDT LTSQ\KELEKQE\THSKPSRRQ EITKIRAE\KEIETQTTLQKINES RSWFFEKINKIDRLLAR\IKKKR EKNQIDA\KNDKGDITDPTEIQ TTIREYYKHHYANKLENLKEM NKFLDTYTLPR\LKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRRKKKSTDTIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLLIPRQTGSGVDLQQTPTDLQ LRL\TVGRKTNKQKGHPHQNP CTSPSSKTKEIRTTIREYYKHLY ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNNRL*N*GNN** LTNQKKSRTRWIHSRILPEVQG GADKQRAKHE*PIHNCFKENK IPRNPTYKEHEGPLQGELQTTS QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCPR*FIDSPSPSSYQ *LSSQM\GKNYFKVHMEPKKSP YCQVNP\KPKEQSWRHAT*LQ TILQGYSNQNSMVLV\PKQRYRP MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGG\SIRMEVGLGGWTQRLE EEKKGNVCSHG\NLEKDFPYIPH LFG\QQKKMDLKG\VKSCFKI YCSSKHLLKTGFISEAVLCYGE GGEGDTVLT\MKERWPHECIVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQ\LRVLT VRRKTNKQKGHPHQKPICMSPS SKTKDFKPTKIKRDKEGHYIMV KGSIQQEELTILNIY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQQL ELRIKKQTQNRSTTWKLNLL NDY
7491	37859	A	7545	21	428	DKTSRGTIROQHLLFTNIRCSAA SAADTQANRVWSGPPANSRDP AAEGPDC*KEN*QERTSTPKS HLYVTIIKDQRNKIPKNPTYKG CEGPLQGELQTTAQQNKRRYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	1	1650	
7493	37861	A	7547	1	946	MAMPLLIPRQTGSGVDHQQT TDPQLRILTVRRKTNTQKGHP QNPNCSTPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMLQKTMAQELQLDK TTLNFIWNQKRACIAKTILSKK NKAGGIRLPDFKLYYKATVTKT AWYWHQNRIDQWNRTEASEI MPhiYNHLIFDKPDKKKQWGN DSLK/K*MVLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGK T*NHRNHRRKPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKELL/RQQKKLPSE*TRNL QNGRKFVQSIYLTGK
7494	37862	A	7548	189	380	QERTSTQNPICSTPSSKTKGR* NHKDGEKTEQKNWKL*KAERL SSSKGMQLSSNGTKLDGE
7495	37863	C	7549	1	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQQKGHP HQNPICTSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIINSRHHGPQ*P ALQKMPAS*VTEIMNNHFLFCF RKGKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSGPDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVP VNSLVCLGKILEYLDKWLVD GILPFLQQIPSKESAVLMGILGIY KCTFTHKLGITKEQLTGKVLPH LIPLSIENNLNQFNSFISIIKEML NRLESEHKTKLEQLHIMQEQQK SLDIGNQMNVSSEETKVTNIGNQ QIDKVFSHIGADLLTGSDSENK EDGALNVPPAGAKPTQQRPTD MSALNNLFGPQKPKVSMNQLS QQKPNQWLNQFVPPQVSPATG SSVMGTQMMNIGQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS *LLEGKRTNRKDINTKNPSVRH HHQRPKMGEKTEQKNRKLKIR APLLLQRNTAPH/HAMEQSWM ENDFDELREEGFRRSNYSELKE EVRTNAKEVKNFEEKLDEWIT RITNAEKSLKDLMEKTTAEN YVTNAQAPVANATN*KKGYQR WTK*MK*SEKRSLEKKE*KEK KQSLQEIWVYVVRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVWMSFLFVSFSPNSQD PQLQVCWSLLEVHSRPLPGYQ QQRIRLEPFKINV/T*ADHEAYR KTA VRRCSQTTQQAWEQSAHQ QHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKA RNN*DERRTEGNRDTKNPSKKS VN/RRSWFFEKFNKIDRRLARLI KKKREKNQIDAINDKRDITTD PTEIQTIREHYKHL YANKLEN LEEMDKFLDTYTLPRLNQEEVE SLNRPITGSEIEAIINSLPTKKSP GPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPD TKA WQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPAN SNRSAAEDPDC*KEN*PT\KGHP HQNPICTSPSSKTKARQANIQI EIQRMPQRYSSRRATPRCIIVRF TKVEMKEKMLRAAREKGQVT HKGNPIRLTADLLVKTQLARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKSFTDKQMLRDFGTT RPALKELLKEALNMERNNQYQ PLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSTTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESGTPTFEPASSPPRGRS RDFQEQSWVRGWQL/WTSTV GCSPHIFWCVDCECTDCEGYLK GHYVAGLRRSFRLGCRERLGGS QEGKMSSGAESPPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGHEYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLRTSEFKPYIIFVKPAI QEKRKTPPMSPACEDTAAPFDE QQQEMAASA AFIDRHYGHLVD AVLVKEDLQGA YSQLKVVLEK LSK DTHWPPLVIPRQTGSGVDL QQTPTDLQLRVLTVRRKTKKQ KGHPHQNPCTCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIW DYVKRPNLR LIGVPESDGENGTKLENTLQDI MRENFPNRARQANIQIQEIQRM PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITR PALQEL LKEALNLERNN WYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGD AVGMDDIPQEARQ YRHNQAYAYS IQGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTCS*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPCV PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSENILTVHEQANVESLKETKQ NCKDLDEDANGITDEGKEINEK SSQLKNLSELQDTSLQHDDEEE STVISVSEDMNSEGNVDFECDT KLYTFLSSDESQQSENSENEED TLCFVENSQGQRESLSGDTGSL CDNALFVIDTTPGMSADKNFY EEEDKASEVAIEEEKEEEDEKS EEDSSDHDENEDEFSDEEDFLN STKAKLGRLTPHMAGYSSETKL PEERPGSNICCPISAVLQPPLLI PRQTGSGVDLQQTPTDLQLRVL TVIKKTNKQKGHPHQNPICSTP SSKTKDRSTRQKVNKDIQELNS ALHQADLIDIYRTLHPKSTEYTF FAAPHCTYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNLLNDY WAHNEIKAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRKQERSKIDTLTSQLEKE KQEQTHSKASRRQEITKITAEL KEIETQKTLQKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTIQTIREYYKH LYANKLENLEEMNKFLDTNTIP RLNQEEVESLNRPTGSEIEAIIN SLPTKKSPGPHGFTARFYQEYK EE/PGTIPSETIPINRKRGNPP*LI L*GQHHPDTKAWQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEAYPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATVLQPG*QSEIL*KEERE REREKKERKKERKKERKKERK KEGKQ*RKGGKKERKEKEIK KERRKGKKEKKEEEKRRKERK KERERKKRRKEGRKKEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGPCCPAQPQNTAPFIPE A*TPAMAERGPATAAGQLEFT GGALQTLFAVWSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDRFGRRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPHCQVNPKEQS WRYVKQSKKIAVYAERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKELRDERTSFSEFNQ LEERVSVIENQMNMKREEKFR EKRVKRNEQSLQEIWVYVCRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MTW NGSLIPWSPCKINLTP*/PAVVL QNRRAIDLTAESGGTFLFLEE KCCCVVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFPYQRQYPLRPEAQQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVSQKAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LTSNCSNLRHSRGPSRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKKGL IRIYMLPLILSAPYDHLH
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVPNLPISAPITKG RMGTLLRLGLGTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAE LGPNSSSASAPPPYNLFAS PPHTWSGLQFRSVTSPPPPAQQF TLKKVAGAKGIVKRLKTD TAR SPWKTPRPSRTPSFRKAERTKG LLKIHLTKLSHQLKDW TILLP LSLLRIQACPRNATRLATGQLG YPFISQSYVLVNGFQTVEDLCE AADLRVSVADLRVSVTALKVA RLELFVPPGGLVVSLASAVKLQ TFAVLQLIKAKRWDWGTLEQG AALIGEARD AQEPTGVGGSG MAGCRSRDLPRGKA AKARREI ERSAGLTIKKERCIRNGYSKEK MKLIVVSHGLHVNDLQHKLTL FTKETYYTLARDSEKQKQGYL AGLEGAHANRVNQISDNLVV KTGALPPPYRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGGQA APNPYALLSQIPEEA EWFTVLD LKDDFFCIP/VHPDSQFFAFEDP SNPTSQLTWTVLPQGFRHLFG QALAQDLSQFSYLDTLVLCGVL KSPHIVWELNQIDTIKNDKGDIT TDPTEIQT TIREYYKHLYTNKLE NLEEMDKFLNTYTLPRLNQEEV ESLNR PITGAEIEAIINSLPTKKS PGPDGFTA EFYQRVADV KLREE KDENMLLVPLSDLLYQVHAPIP QLPEVLAANSPTCHLDPPTITES
7528	37896	A	7582	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSYDWDGALFFSHAFLIM LESPTTLLGRDILAKAGAIHNLN GEGTPVCCPLLEGINPEVWAT EGQYGRAKINARPVQVKLKDS ASFPYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNGQWRLVQDLRIIDE AIVPLYPVPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKYSKQKAQLCS QQVKYLGVKLSKGRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKGGKGRDIL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNPTLGVQKPSGQWRLV QDLRIINEVTVPYLAVPNPYIL LSQIPEEAEWFTDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKHHRFSRTSCF QSGNNPYLKPHLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLLSEQEC*VD *VLALAVPQPLLSSTTNLYLKNS MVTWNGLPTPWSPCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTTEEPSA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKQEKGAGLLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSSPCNTPTLA VQKPNG QWRLVQDLRIINEA VVPLYPAV PNPYILLSQIPEEA EWFTVLDLK DAFFCIPVHPDSQFLFAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDTLVLQYM DDLLL VTHSETLCHQATQALFN FLATCGY MVSKPKAQLCSQQ/R YLGLKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTEVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVL TQIRGMSLQPV AHLTKEID VVAKG*PHCLRVVVA VAVLVS EAVKIIQGRDLTVW TSHDVNGI LTAKGDLWLSDNCLLKCCALL LEGPVLR LCTCATLNPATFLPD NEEKIKHNCQQVISQTYATRGD LLEVPLTDPDLNLYTDGSSFVE KGLRKVG YAVVSDNGILESNPL TPG TSAQLAELIALTWALELGE EK RANI/YTDSKYAYLV LHAHA AIWKEREFLTSERTPIKHQEAIR KLLLA VQKPREVA VLHCRGHH KGKEREIQENCQAYIEAKRAAR
7532	37900	A	7586	80	678	LCCNMPAAQHRRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EAVLSAPSALPSSAATSLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPPLQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESPKRLPRPGKSFL

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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEGGGGEGEEKKKKKKTEEE EEEEERKKKEEEEEEGEEEEE EEEEKEERTGAGDSSEDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYEESEMDLGTRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPROKQLNANIGKNFNAAEN HENAKTTTRSSTVGDATHLTA
7534	37902	A	7588	3	191	SSHPVFSPRWVLSHPQSQCYT* GSGAQNLTAAPFCVCRGDRGN HLRKDTKVEVKRKTCLW
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVTPRSAPRGRAFQGATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLGTSSA AFLWSSLFLFKMGIMIIVSAS GWFMRLLKGKKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSGRDST LGPGLLTIGASSPVPLVV*LCA GYFPSLGSARLAAVAKPRGGD QRSAGVGGLSLHAQCPRAGR HPFPRVFSACSRRLRAFFRKG GGACLSNAPDPGLVPPALCGN GFVEAGEECYCVSGQECRDL CFAHNCSLRPGAQCAHGDCCV RCLLKPAALCRQAMGDCDLP EFCTGTSSHCPPDVYLLDGSPC ARGSGYCWGACPTLEQQCQ LWGPESHAPAEACFQVVNSAG DAHGNCQDSEGHFLPCAGRD ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLGLVEPGTQCGPR MVCNSNHCHCAPGWAPPFCD KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPAGLAWC CYRLPGAHLQRCSWGCRQGPC VQWPQRWPTQGPPPGRRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEKENYKNFFFAFSKNLAK LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAGLDVV YCGLFYFLHFVLKLYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGLPLNISRE MLQQSKILKVIRKNIV*EC/LFEL LSELAEDKENYKKFYEAFSKNL KLGIEDSTNRRRLSELLRYHT SQQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSFAVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGWCRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNPFIGSLTG RVRAIMVGKAKWKPLELPLPR KIVNOKQYHILGGTVEISATIKD LKDTEAVTPTTSPFNSPIWPVQ KTDGSRMTVDYCKLNQVVT PIAAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSADR DAIWSLWNAAGESQRRPLGF WSKALLSSADNYSPPERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKLKWIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRGWCRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFPPIWPVQKTDGWSW RMTVDYCKLNQEENFNNQVDR MTHSVDTTQPLSPATHVITQWA HEQSGHGGRDGGYTRVQQHGL PLTKADLATAGKVFQKAV*AL N*HSIYGTLSLIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVP PTLRSAGLEFLVPEEGMLPSGD TTVPLNWKLRLLPPGHFGLLFPL HQQANKGRLSPHSRERGTSVFA SSNSQPVTA\NNEPAGPNKRD GKAKGLKFHHPGPHRQERDML E/SML*PWGYPVGKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQPMLPSDFP PLSEEINPMLPEATVIASPKEIAR QDNVDSPQEPPPTPQFSSRPITR LKSQWAPRGPECVIGIDILSSW QNP\HIGSLTGRVREGYMGKA KWKPLELPLPRKIVNQKQYCIP GEIAEISTTIRDLDKDTGVVIPTTS PFNSSIWPVQKTDGSWRMTVD YCKLDQVVTPIAAAVPDMVSL VKQINTSPGTWQHITHLDVLLW RIYQVTQKAASFEWGPEQEKA LQQVQAAVQA\LCHLG\HMTQQ IQWCLRRNGEMCDYILIYGL
7551	37919	A	7605	1	608	MAPGMVPIPPPGKYHSPKKLIY STPPKPGTYGISDSLSQYPTSAK AEPVPTHKNPRRESPIHSSPSSF TDG/PSPNSPGDARPH\PNKTS RGRPAPRQRVPTTITTPAPPARS PNSAHSPA\FRDLPFRAEKGTA ARVPREPHSPAPPKNKGSLQPP AGELLQRGARTTLPRILGTAPG PHLPGCSAPP\GAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPQLRGFP\SWLFHSVSI RSPASGHLEFPSFARSSGSGSTS PLSFGAMTTEKQALGGRAAFPP KYK*AQGRAACFVLT\SSQQPS WQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPTWC SSNTPEPQSLRAPQ*LQVPVPLQ SRGQR*QPQMP/VRSQPKAP*V QMPPTPSSAKGPHLDGVRVPA ANPE*PTAGPTRAA\ILRATPAPS LPMPGTNRPSRGN\SLQDSAPA SDAGWPPT\EA\VTCP\WSREN PQRNL*AHRPQGRPRVP\GTERR NGRGGAGCRQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDDETPQLSAHG/T LAALQEFYAEQKQQIEPGEDDK YNIGIIEENWQLSQFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFSIYIFEY DKRFAME*KEILIFYDYNPLD LPERIAAHSFDIVADFPYLSG\ ECLRKTSETVQVLRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNFGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVLKGVHSH/KKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPEERSPG ETRLDHLCLSIKFPALTH*VLPM KKIEDNNTLVPLVNVKANKH\ QIKQAVKKLYD\DVAKVNTLI RPDGEKNGICSDLA\DYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDCKTSCSYNCSKPRS SWQDQDISSGTGLHSRLTLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLV TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPIGSEIEAI NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRLNQEEVESLNRPIGSEIEAI INSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIPELNSTI SANSTNADTCTPKYVTFNSKGT AQNADSDSAGLEWSLMFCISD KVSGDDDDADA VDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVI VTF GIILPLCLLKNLGYLG\YTS GFSL SCMVFFLIVVIYKKFQIPCIVPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLPI YSELKDP\SQKKMQMVSNISFF AMFVMYFLTAIFGYLTFYDNV QSDLLHKYQSKDDILITVRLA VIVAVILTVPVL
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYS LK\ RANLRD TGLKEEVYIYKKFQIPCIVPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSNISFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILITVRLAVIVAVILTVPV LFFT VRSSLFELGLRKQRFNLW PSIPVVT CILLVVINLVGDLHTP P*RIFFGVVGSYILLNMLIFILP/S IFFILKITDQDGDKG TQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSF/SYGDEEISKTFALN ERRGEIKIIRKLD FEKIVSYQVDI KASDGAGLSGKCTVIIQVVDIN DNAPELT MASFTSPIRENSPETV AALFSIQDRDS\FALRSLDY EAL QEFEFRVGASDPGF\ PALSS EAL VRVL\ VLDANDSSLFVLFPLQN GSAPCTEL\IPGRAAEPGYLVTK QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVLVKD NGEPPRSATATLHVLLVDGFSQ PYLPLPEAAPAQAEADLLTV YLVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSVPEGPF PGHLVDVSDTRTLSQRYKYEVF LTRSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPFKSDPF KGADPFKGDPFQNDPFAEQQT STDPPGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLDPFESSDPFSSSVSSKGS DPFGTLDPFGSGSFNSAEGFAD FSQMS/KGKSTPVSQ LGSAD FPE APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVQGASLKLLASDPFGT LDPFSGSFNSAEGFADFSQMS KTDPQVRSELLKIGTAARLVTR LDPLVSGPHTR*PELTVALVPD SCRASPDAGSVVGAHL*GLGTT GAADGGTPNSNRSFVLGVIIIV WSMCQLYLVPSPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QQMPWDPVWGA RGSPRPSCGPRKCRMCVVP RV IQHPSLLLPSLVGRRSQPQIWRS HPMPAAPPS
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDEAELRTPAAACKL *SECQFRTRVDAVRTMMIP/AFT QVLKSHRQDYL VGNKLSWADI HLVELFYVEELDSSLISFP LL KVKLLASSVKPVPLPSALRWPA HAVAQNI VTSWLTGGRFIELKT VQILDRLELEKPCIDA EDEC FNT EWSTEFTLLKAWDEYLKAWFA LHLLEAMFQPSDSGKSFIFNMS VGYNLEGQPLNPKNYP SQGVP RVLKSHRQDYL VGNKLSWADI HLVELFYVEELDSSLISFP LL KPTHVDNTKKGSHPHMCAYT DYVNNPNDRMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGPKLHYFN GRGR MEPIRWLLAAAGVEFE EKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAE EKDAKIALI KEKISRYFP AF EKVLQSHGQD YLVGNKLSRADISL\VELLYYV EELDSSLIS\NFP\LLKALKTQNP ATLPHG*RSFLQPGSPRPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETA IMAEKP LHYFNAR GRMEIPPRWLLAAAGVEFE EK F IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMGKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVCAPPE\ E KDAQALPLIQEKTKNRYFP AF E KVLKSHGQDYL VGPTSLSRGW TFIWWE LLYYVEGA WTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGPRTHPVVIFPV PECIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRMTVGYCKLNQVVTPI AAAVPDVVSLLEQINTPPGTWY AAIDLANDFFPIPVHKAHQKF AFRWQGRQYTFTVLPQGRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPTTK K/EAQCLSGFRREHIPHLPIYRV SRKAANFEWSPEQEKALQQVQ AAVQAAWPLGPYDPADPMVLE VSVADRDADWSCWQASI/GHK VGHAQQHSIIKWKWYIRDWAR ADPEGTTKGQGQRRWWQLAE RQDSRDREAAIGERQETAVGKT ARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAAVSD VVSLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVVIPTTSPFNSPIWSVQKTDCG WRMTVDYCKLTQVMTPIAAV VPDVVSLKQINTYPGTCKFLG VQWCGACRDI/PSKV KDKLLHL APPTTKKEAQHLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEALQQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYS PFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLS DPSRHKVGHAAQ HSIIKLK WYICDQARAVPEGTC *LNKEVAQMP/MGTTTRKWTA ALQSLSGISLKDSGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNEIWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHELSFTKAD LATGIVECPICQQQRPTLSPRYG TIPQQQTFILTGINTYSIYGFAYP AHNASAKITIRGLTECLIIHHGI PHS/IVSD*GTHFTAKDVETRIH RPRNQGVVEVAPLTITRSDTL AKFLLPVPTTFRSANLEVLLLE GGTLPPGDPTTIPLNWKRLRPR GHFGLPLPLSQAKKGVSVLA GVTDL DYQDEFSLLLHNRVTA AFPSLLHSSFAYLDNMIEKANK CHVEGV D HVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLPFLSDFAGPLH TSIMPTRRFCSKSP*HTLATAL SQGLS*GT*NEASLTKEKVGKN RCRYSPSYPPSGIREGKAQLCFY THWK

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7575	37943	A	7629	1	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGLE AAASAQLRLGEEAACRLPLDC GLALRARAAGDHGQAAARPGP GKAASLSERLAADSVFVGTA TVGRPKNAPRVGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSMDTLENVQLKLE NMNAQADRAYLRLSRKFGQLR LQHLERRNHLIQNIPGFSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLGYKIKFYFDR NPYFQNKVLIKEYGCGPSGQVV SRSTPIQWLPBGDLQSLSQGNP ENNRSFFGWFSNHSSIESDKIVE IINEELWPNPLQFYLLSEGARVE KGKEKEGRQGPQKQPMETTQP GPLSFVWVAVSPSWLPGQGP QELPVDGRGPLVHETHYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISPAPSHPLGSSE TLDIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQS\ QLSRL*KQAIELREAVEQHKVK NNDLREKNWKAMEALATAEQ \ACKEKLHSWTQ\AKEES/ERNQ LCLIEAQTMEALLALLPELSVL AQQNYTE\WLQDLKEKGPTLL KHPPAPAEPSTGTWAFQV*GEA E\ETQSTICRAEF\QYRSILGGD GRALLRDLQKSVEEEEQV\WR AKVGAAEEELQKSRVTVKHLE EIVEKLKGELES\SD\QVREHTL HLEAELEKHMAAASAECQNYA LAEVAG\LRQLLLE\SSSQLRLPP KNRNPQKTEPMSFALGQASS*V KLKSHVED\GDIAGAPA\SSPEA APQPSRDPRSA*RTQLELDQKPI PWRMRQTTSRQKLHGSPFE\EA SDLRACSVYKEGFWEKLPHSA APPRSFFRNRREAFTA*RRDLEK RGRSLTSD\LGARPRRLQELSE RRTQEQLGKGRRTRVKKLQE\Q LAEKAEDGSS\SKEGTSVLSFLFG KKKLLFQLYQNALTHSFTIKPT NLHSVYPGPNFPVLREKAHEET SLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY\FVNQTMGN/SCG PIGLFNAVANNQDKLGFYGP LLNQFLF*NR*KCPPKDRAKCF ER\NEAIRAAH\DAVDKEG\QCR VDDQGEFPFLFCLQNVDGPPSM NLDG\RMPFPRGPMAPSFRRTTP

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEKSLKDLMEKTM AQELRDECTSLSSRFDQLEEKV SVMEDEINEMKQEEKVREKRIK RNEQSLQEWDYVKRPNLHLIG VPESDRENGTKLENTLQDIIQEN FPNLARQANIQEIQRMPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKEIQTITIREYYKHLTY NKLENLEEMDKFLDTYSLPRLN QEEVESLKRPIGTSEIGAINSLP TKKSPGPDGFTAIFYQRYKKEL VPFLKLFQSTEKERILPNSFYE ASIIIPKPGRDTTKKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTNEKNHMIISDAEK AFDKIQQPFMLKTLNKLIGDGT YKIVRAIYDKLTANIILNGQKL EAFPLKTGTRQGCPSPLLFNIV LEVLAIRQEKEIKGIQLGKEQ VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TLACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRRFGLENRVT ATRILRFSRLKKRRRTTRYPTP GSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIA YQPK* AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHIGSMPVP TRTAGPLPFFAGPCR
7587	37955	A	7641	341	504	ILRFSDRLKKRRRTTRYPTPGSQ GPTPRESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQLIALHRLALRELQQAVH AGLPQQA KILFDGGSEIGKIH*L RCAHCPLSSRETCRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIDLLLCEG LNIIFHVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYRAEEN ARRLMEQACNIKVG VYTGTTEL Q*DFSLDSL VSWDSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIRS*EKERGRKRWLSTF KNETKRKNGK VLF*LCMSYPQ RLLAGELFQD*HKDVSNLPLSV ENVKNTNSLGRKNKNHK\REN RRLQEASMRLEQENDDLAHEL VTSKIALRNDLDQAEDKADVL NKELLLTKQRLVETEEKRRQE EETAQLKEVFRKQLEKAEYEIK KTTAIIAEYKQICSQLSTRLEKQ QAASKEELEVVKGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQPAPVTQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPCCSLISDCCAIN QRDSVGVPRPSKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNLTPCASRIINMH FQAFWLCLGLLFISINAEFMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPIGEVYFAETFDSGR LAGWVLSKAKKDDMDEEISY DGRWEIEELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFQDIDCGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKCGEDYKLHFIRHKHPK TGVFEEKHAKPPDVLKKFFTD RKTHLYTLVMNPDDTFEVLVD QTVVNGSLLLEDVVPPIKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTKGVLEQEEKEEKAALKEK PMDLEEEKKQNDGEMLEKEEE SEPEEKSEEEIEIIEGQEESENQSN KSGSEDEALAEQPREGPGVPGP IPPKRPSRSPICEPRAAKRLPTQE LRGESYMSASGTARGSPKER LGLTTKTGEKEVAQGFCREPL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWVSL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSELKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGS WRPSGGV/DVAAPVRARLALLL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHSPTS RARSPLLARS
7599	37967	A	7653	1	177	RPLPSRPHAAPPGHHTISSGPCG HRKFSPKAGDSNTPRTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENKPKSK PQPTQR*TRGPWPSSRCRVRSG /THRRPGLFLS*KQ/PSEIGHSR ALSAFTPAEMISTLPPPTSKSPL AARAAPPNG*SPKAGDSNTPR TRSRPRVSCALPPDVRGSWLS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7600	37968	A	7654	1	1430	MQDTCSEIISPADFPTFSSSLKIR FSTDSPSQIFKKHCIQKIVLILLP KNSYTRRLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREPGPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGSPGPPRAGPRLFAPRPVLS RCSANPSGSPHTQSPKQSSTGQI SGRADQVCCGWIRKRGVPGAA RGSPGCARTCHSRGHPHAAPFP QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPPVPL*PPHPHP*G LSFSSCSRSWVPNTPP/EPREGE GQVPGRRASAPGASFAPGT/P RAPQPLPHFPVAQSPAAVAA SSECKREAARRSPGASALHLPP KSARPRQAPCPTLTDGGHIFPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWVFVL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIKIT/ LATLKMS/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDAEESEEEEEENVKLLSISER RSAPGVVSMVPQKKVKLAAD EDDDDDDEEDDDDEDDDDDDFD DEEAEEKAPVKKSIRDTPAKNA QKSNQNGK\DSNPYSHPRSQG\ QDPFRKQEKTPKTPKGP\SSVE DIKAKMQASIGKKRIEVLGTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQRSFISVRL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKDYHFKV DNDENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVTL\ ATLKMSVQPTVSLGG\FEITPPV VLRLKCGSGPVHISGQHLVA\ EEDAEESEEEEEEDVK\LLSISGK RSAP\GGG\SKVPQKKSCTCML MKDDDD\DEED\DEDD\DDD DF\DEEAEEKAPSERNLRYDT PS/AKNAQKSNQNGK\DISKPSS TPR\SKGTRIPSKKQEKTPKTPK\ GPSSVEDIKAKMQASIEK\GGSL PKVETKFINYVKN\CSRMT\DQE AI\QDLW\QWRKSL

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7604	37972	A	7658	9	271	GRVCKALWHSWHTARVLCIN STTTITASCNP/RHTARRSLTTPT *MCRLENWTKNLLFNGPVPVL VMSLLFIASVFMHLHIWGKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPSPPG/VPT*RPELLGPRR ERLLGPEGS/PGGGALPGVPPSR FVRTASSTLFLPPSPRPAFPSSIP LVPSPPRHCARSRETWPRTLRI SAP
7607	37975	A	7661	1	431	LALQFSFLQNRQGLNLLIAEK RLCIFLNEECCFYLNQSGLVYD NIKKLKDRVQKLANQANNYAE PPWALS\NWMWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNR AIANNI*QMLLLTTPQYQPLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVVEVTKPRLLWP QWIOHRARRPCLQAPCSSRPH APAS\LPPSSSPTARDTKHRAQV KTTDSGARRRDGRVLGVLEVS RSIADGQYKRCG\VTSPVD\IRR C\QLTPQ*PGSILLACDGLFKVF TPEEAVNFIL\SCLEDEKIQTREG KSAADVRIYEAAC\NMLANKA VAAGARPDNVTVMVVR\IGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRGLAVSRQ AVRSPGPLAAAVAGAALAGAG AAWHHSRVSAARDGSFTVSA QKNVEHGIIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRD\FLFSV MFEQMERKVIQSR*QKRFIEDT LSGIPTAGCGSSFFQRPWAIKGL I\SYNRVIFFFALQSSLNPIPGFH VAFKMLDTDGNEMIEKK/ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL/DTTLQMRFFG KRGPRLHYKEFRF\WENLQT EIQGN/VEFLQFSKGLSFMKR TLQSGYFFSTNTENKDIYWKNV REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLGDDECLSHEEFLG VLKNRMHRLVGTSTTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSRLC QCLVELSFQLATAYHGSATTRE AARGEACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVAPAGTEE GMSEEEQSGSTTTGCGLPISIEQ MLAANPGKTPISLLQEYGRIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSTGQGPSKKAACH KAAEVALKHLKGGSMLEPALE DSSSFPLDSSLPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPV GALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAAKMLLRVHTVPLDARDG NEVEPDDHFSIGVGFRLADV QNRGPGCTWDSL RNSVGEKILS LRSCSLGSLGALGPACCRVLSE LSEEQAFHVS YLDIEELSGLC QCLVELSTQPATVCHGSATTRE AARGEAAARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRKISQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGACGCHD SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMDLMDISDQEALDVFLN SGGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFDMLHSGNFEIHL SLL VVKDWRLQGGADSPAGLTGNS SLFVRQAFRGVPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSD EEEVQVDTA LATSHTDREATPDGGEDSDS

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7617	37985	A	7671	60	965	QRGVGGVGRGRQRQQQPEA* GEET\AAAAMLET\LRERLLSVQ QDFTSGLKTLSDKSREAKVKSK PRTVPFLPKYSAGLELLSRYED TWAALHRRAKDCASAGELVDS EVMMLSAHWKKTSLVELQE QLQQLPALIADLESMTANLTHL EASFEEVENNLLHLEDLCGQCE LKRCKHMQSQQLENYKKNKR KELET\KAELDAEHAQKVLEM EHTQQMKLKERQKFFEEAFQQ DMEQYLSTGYLQIAERREPIGS MSSMEVNVDMLEQMDLMDIS DQEALDGLPELWRRREHCAVP
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	CCLIKNDIKEKLHYSDCRLNVG QPCILPRNAFEFDLLIFYLGNLH FYISEIGLLGYCTFFFFFEMESC SLTQAGVQ*CNLGPLQPLPPGL E*F/SCLSLPSSWDYRHVPPHWL IFVFLVEMGFCYVGQAGLEFLT SGDPPTSASQSARITGVSHHAQ PGYCILILGFC
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGRVFWAKERASAEAL RHELAGLLKKCKGSAADADQG GLGQGCRRHSKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEPSAAASGMDQCVT VERELEKVLHKFSGYGQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTGGEMNYGFHLA HHMVALGTSIFGEEGRYSLSTS NSSIAALLCALYPHPGFTALD NRYHLQVALRHLYVLA AEPR FLVPVGCQTQTRPCYALLGSLP YKGTQWYAEQTKEDLMAPTLL PELHLLKQIKVKGPYRWELLID LSKGTQHLKSILSKDGVLYVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPTISAFTSD PALLSFAEYFCKPTVNMGQKQ EVLDFSSVLYECVYPRETPE MLPAYIAMDQLIRRLGEREMS ETSELWQIKLVLEFFSSRSHQE RLQNPLKRGALLMELGNSPPF CKCTINNTLADTWLQVRGDIC VNA YLTGQPLAESQLDMLACF LVFHFVPSSTALPTL*D*KGSTS FAELLFKFKASLKMPSAELCLR LAPLPSLEIPQPNGDVTVSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSRAACPDNRLVPGASR*HY LHRCRSRHSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLLHD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRRHHKIKTGSPG SEVVTLQQFLEESNKLTSVQIKS SSQENLLDEVMSLSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGKIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTSIHDFLTKDSRLPISVD SPPAAADSNTTAASSEYHLHQ WSSHILDIPHTIGSCAQNDLAI DMPEPLYAQARNRSTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILIPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLLRIFRWISQKQCNV EVTSICWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSCTKGQC NPLELVITNPLNPHWKKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNVPVPEIP GKTRNLFQLAECVAQPLNVT CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAEKELENFFQNTED WYFHTSHLSSLRFFSARENC SMKLYEEAYMERYRDFLPATM WSAHTVDVPGQATWIKQKSE KDPVHLQKGKNGPSCTKGQCN PLELVITNPLDPCWKKEERVTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFDELNVPVPEIPGK TRNLFQLAWHVAQCLNVTSC YVCGRTIIGDQWPQEAQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIIGQYCIAREGKEFTHPIG*L SCRRQKLYNGTTKTIT/W/RGSS NHTERNPFSKFPKLQTVWTHLG VPRAWEQPLGLLGYVRAWS LLTGLLDHWAGSCCLLGTIKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALIIITDKISRALTIL AWQETQMRNAISQNRALDYL LAAEGGVYGKFNLNCLLHVD DQGQVVEDIVRDRTKLAHVPV QVWHEFDPGAMFGKWFPALG GFKTLIIGVLIVIGTCLLLPCLLP VLLQMIKSFIATLVHQNASQV
7630	37998	A	7684	3	406	TLISFIYPAQNPELLNKLSQRKT TVLAMQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAALE QFKSLGAEPLEVDLKESGEGQG GYAKEMSKFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTINMANLLKTV ATGCSCPLLNNLGSKGLRVK KDFLRFTFYTHQELWCKAPVKP GIPYKQLTVGVKPEIFQNEKRV ALSPAGVQNLVKQGFNVVVS GAGEASKFSDDHVRVAGAIIQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGLTISFIYPA QNPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFRFFTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRVRDR GPQARCFDVGGCPRSPNSGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCMLSSGTDGACSEVLV GTLVRPL
7638	38006	A	7692	54	522	RFHMSSLSASPPRRLWTQMNT QCLVFSASHLPRCQEMLFQGT *EKPHSPRCFSPAKKPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVASPSGPPAP CSPV\GWPGTYKAIPASGTVAP TPLSAGTTDMTRLCPLSLEFL ND
7639	38007	A	7693	3	57	RAGAGRSERAVAEES*GGLSGS CGRHNPQSRQLQRRPSQDVELE DCCRGCS*SGSLWLRTLRPKRPA PFGGFSVPASSAASIPTGSAVVQ PGPLPGPTGKSPVVFAGSGPSSN PQPAFS\NMRTDGSKPGSA/SF APLTPPLEPPAGLRAPSSGVSP LPATIQSNRARRARSPGDA*AAP PRPGVLTSAVPLPRRVT/CLRNS RAFAPAVRTNAVTP*PGGVSGP SQRRAEAA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

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7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPNSNGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSIWLAGA MLYAVYIVMIKRKVDRECKLD IPMF\FGFAGLFNLLLLWPGFFL LHYTGFEDEFEPNKVVLMCIIN GLIGTVLSE\FLWLWGCFLTSSL IGTLALSLTIPLSIADMC MQV QFSWLF FAGAIPVFFSFFIVTLL CHYNNWDPVMVGIRIRIFAFICR KHRJQRVPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQQGTGTD GSGRGWGRPNSSGGKEGHFYNN ISE*VGGGASRSGAGPRRWRRG PRMLQITNASLGLRFRQLLYW FL*GPSTLRGVESGSGGLEVLW GSRDPAGRMKVS NVSCQASVS RMHAAF GGTFK*APAPTPAHPF RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSCLGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLLVGDKV CHGLFVGWAREGL*QSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGLLSR*AGALPCTSVI GGQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEER\GVNWA GPD*ATNHA VSGGRMGKEGGP SPLSIAPQCHRPADVRASTPTP
7647	38015	A	7701	2	391	MALRGKALRTTSDLRRFRIYSN HSATWKSLA/L*IPLQAPLKVTM LPELG*MPQCSNERT\WRG\VQ DPHYPEGIKLCAMKVVTNPGCI PSPIGA*SPTFAKGLREVIEKNR PADVRASITAPTSPSHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIHH/SSHRVHLA HSPHSLQ**HPHPLAQPSQQDRP SVPL**MSLADPESHLSHSHF HL*PACRV*AYDLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGKLNAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLLGPLRSFRCHLSDPVFRTGAP PGQGSWQYKVLVHAQERELTQ LREKLREGRDASRSLNEHLQAL LTPDEPDKSQGQDLQEQLAEGC RLAQHLVQKLSPENDNDDDED VQVELAEKVQKSSAPREMOKA EEKEVPEDSQEECAITYSNSHGP YDSNQPHRKTKITFEEDKVDST LIGSSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\ PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTLP SRFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLRQRIHDKAVALERAIDE KFSALEEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI IQ QLQTSLHDRNKEVEDLSATLLC KLGPQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGGRDS LMSQAPISNQQAEVTP TGR LGK QTDQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKKNHDAK YLVN*YS/CFRCAPGYYG NPLLI GSTCKKCDCSGNSDPNLIFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLFLFPTVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSSS GTLVHGHSVNGEYLVNHMKN GQVIVKVNNGIRDISTS\TPKQ SLCDGRWHRITVIRDSNVVQL DVDSEVN\HVVGPLGIQKPIDH REPV\LVGGVPRILY*HPRFCPP QNPFTG\CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCPKYKVPLRALEKE HKASPGGTVTLSFGVGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STSWVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GWLKNS*PQAIRPPQPPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPCGKIEEHSEDMETH VTKHANLLDIPLED CDQPLYD CPMCGLICITNYHILQEHDVHL EEN\TFSKAWIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEEF QKLQRQYGLDNSSGGYKQQQLR NMEIEVNRGRMPPEFHRRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLFRGSLA SVIRPGEVLDAAHALVCQRGPK GKPSGAQCGSCWPLGRPKALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHHLLVNTMLSCNIC GETVTSEPDMAHLIVHMESEII CPFCKLSGVNYDEMCFHIETAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSILSGC ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPECPCGKI EEHSEDMETHVTKHANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKRRSEESRQEIEEFQKLQR QYGLDNSSGGYKQ\NNYEIWR* K*IGEECLHLNFIGECLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPWPWF G
7662	38030	A	7716	229	359	MKWVYCSVTGMGKGQHRMP SKG*GWVQRYNRDGIPSPRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEG REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPIAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRIYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLMLSAAPEPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVA FKAEGQRCYREKKFREAIKGY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPAICLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAGIAFYPLGDYARALRFLQ EAPSREPPDTNVLRYI\QLTQLK MNRCSLQREDSGAGSQTRDVI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPFPCHKNCTPTLRASTN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	

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7670	38038	A	7724	1	1544	MAQGNNGQTSNGVADESPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFLSKIPSVFSGSDIVQ WLIKNLTIEDPVEALHLGLTLMA AHGYFFPISDHVLTLDGDTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNKIARL\ELADYE AESWA/RGLQRAFAPKWEFIF M\QAGAQAQVDKKRDKIERKIL DSQERAFWDVHRPVPVCVNTT EVDIKKSSRMNPHKTRKSVY GLQNDIRSHSPHTPTPETKPPT EDELQQQIKYWQIQLDRHRLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWLSDDTTFWLEVA SKEPSQQRVKRWGFWAWDEGI GKTQLGRNSFLKIF*EFRISGS GNFKVLGWASGRTLKKRPFKE VPSRVQEIWQEFAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHIYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAATHRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHLSLIDLPLLSFLLLF *D*VSLLLPRLECSGAISSHCSL H/LGPGSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRVSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKSRKGPQFG KSQYQELIRRSEGLNRGEGESI KANMQQVIYIFPITLAEVVLRP HSYPSKKTGLTLAAASIAYISR *EWLYFETGTWVYPVFAKLSLL GLAAFFSLSYVFIASIVLLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFCSIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPPVFAWFILMHF NTRLFQEAFFGPQILQRWRLE SVGICFQWPDWKSPAKHQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLDGFHYQIHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSLQVSGKVWR*WTAI CTHTSQSLSLISLLFCLRSASATS LTLSHCVNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAARTVSISEGP DTLGDGMRRERRETLALAPEPEP LEKEACEKWKRPFSAASATSLT LSHCVDVVKALLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTR AQDVLDAHLSEVQCCSFQPNP SLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFFPF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQA VTGSRDRTVKEWDL GRAYFSRITIQCSFSYCNDVVCG DHIIISGHNDQKIRFWDSRPHC TQVIPVQGRVTSLSLSDQLHL LSCSRDNTLKVLDLRSNTARG FRADGFKCGSDWTKAVFSPDR SYALATLPVMGPF*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLPSPHGETWTQGRKGC AFGSRAHDLPALGWRLLEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGCCIPK VFPAVFRLPLSLHTFLPLPLSRT LASGGDGATSASCCRCPGAVSI S*L*QTVASP*VLVHVSRKEIT GKTARAIRDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHLHDDR PVLEALVARAIRNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFYFDNSFRPVPLEQTYVG ITEKKAIRFQIMNEIVYEKIME HAGKINQVLVHVSRKETGKT ARAIRDMCLEKDTLGLFLREGS ASTEVLRTAEQCKNL*LKDLL PYGFAIHHAGMTRVDRTLVED LFAIDKHIQVLVSTATLAWGVN LP*HTALFK
7688	38056	A	7742	2	518	

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7689	38057	A	7743	18	1108	CSGIPRFRDSQSTRAACFFPAWT RMRAPSMDRAAVARVGAVAS ASVCALVAGVVLAQYIFTLKR KTGRKTKIEMMPEFQKSSVRIK NPTRVEEIIICGLIKGGAACKLQIIT DFDMTLRSFSYKGKRCPTCHNI IDNCK\RLQMNVEKSYCQLKEK YYAIEVDPVLTVEEKYPYMVE WYTKSHGLLVQQALPKAKLKE IVAESDVMLKEGYENFFDKLQ QHSIPVFIFSAGIGDVLEEVIQQA GVYHPNVKVVSNFMD\DETGV LKGFKGELIHVFNKHGALRN TEYFQSN*KTNSNIILLG\DSQG DLRMADGVANVEHILKIGYLN DRSGMSF*EKYMDSYDIVLVQ DESLEVANSILQKIL
7690	38058	A	7744	105	548	PQTPRLKQSYHVSLPSSWWDHP VAGKRA*HAH*FYIMAQLFLPA ASPGTPASQQPLWTQCLPISW RPWSAHSFLKPSSPGPGTPASQ QGLWTQLPRSFQRPWPKSSSR PGNGPGRAASRPRAQLRPLGG LSRFNDGHGNFLAQ
7691	38059	A	7745	186	650	RCPGCPTTASARESREAESRGR GSSGASWGAVQWEEPQPRLL RGTDDCMIFWAPHGSSTWRRR CVHSRSTAADPVLTPSPA/STPS SNCSGSGTSLAALPLPLPQTLGP *QPGWKGTPQPCLNTWGVSITS TGRWATPKIPGLTVPPENMDS MWG
7692	38060	C	7746	212	556	
7693	38061	A	7747	2	312	PDLK*STCLGLPKCWDYRW/RA TMPGWENIFSSMNTLNALTG AVTSTRDNS*LHRVSCISSPWCC CLSPCPCRVSAGTGRVPSCCH SGAWNRLDQDINRNNSC
7694	38062	A	7748	2	366	FLHTKYLLFCGIKAPHKYFIRSII FFFLLRQS/LYSIAQGGVQWGN LGSQPPSPGFKQLSCLSLPSSW NYRCAPPCPANFVFLVEMGFH WIKPG*SRN*PRDPPASASQSAG ITGVSHHAQP
7695	38063	A	7749	1	446	MPILFTTVSSALSQAQHIADAQ CDRKGHRTTIQGSRVNLVQPSV GPKVEETQCWGPGRGMPGAPE APRERRVRSGSRSGDPGVA/PR AASGVGGRYAITRGRASAAMP CRSGGARRGGAGGQAADCGPG H*KESESRGPEGPAEGSQPL

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7696	38064	A	7750	1	744	GGLIPRAQRESKRRSRGRARAA SGV/VWALCYHPRQSECCGTL* KWRSSPRRCWRTSG\DCGPGH* KESESRGPEGPAEGISASLKM* WFASGTCLSRCLTLRQRK*LKK IKIHWIKK/SEK/PAEAT*SEGQPP F*GPRQTGAEGF*LEPPQPGMSL KLFKVLKG*DSRTKMGDQQPP RVHGRTHGPLQPLTPVKGQGS CPVKGPSPSGIWP*KPLL*CLAT L*WQEGTFLSGLLGPGTPGAS VGHKIY
7697	38065	A	7751	316	650	SYNTHGITFHVPTANVLVVDL MCHLEKLAKYDDIKMKVKQA LEGPLAKGILDYTEQQVVSSNFT SDTHSFTFDAGAGTAFNNHFFK LIF*YDNEFGYSNRVVELMFHP ASKG
7698	38066	A	7752	2	775	QARRARSNSRGLSQSAARPLA AKTAWRTVAPPQPWAAAPR*R SSCPHSSCSATSPGPARACQSSA HSPSPRLQAPPPTSS\SGSSVPE AATAPLAASARRGTPRPRTRGP SWAGTRQGSWAGTQRPVWVA PAPAGPPRAAAAAAR*GRDKS QLTCPPRHSTPPGSAAGASRHR RRGLAGPAPSPPGCRAARPPWP SAAAALGLGGRGPDVALHCEI HWPLEFQSLCCCLLTSRGGEAS CHPEFHLFMHDFLPGSF
7699	38067	A	7753	1	552	MQTLFTLLQPSSQTPGIPQPIVC CVYAESGARDSGQP/PSKVPVPS FCTPAATQRG*REPGCSHPAGD CSAPQQCS*PGQ/RIS/RGDKVL ASNTYLPGPPGLPGGQGPPTW MKVETITQQTNTGTENRVFSL LYMTISKQYLSEEQGSWLSCL INALQAFFSNAAIWLVTWFELS RVLDGAEND
7700	38068	A	7754	2	538	LGKYITGDKVLASNTYLPGPPG LPGGQGPSPGPKGSPGFPRY A\GLLGQPGSRGSIGTHGTIS*S/ G/LPTKQGRRGPPVGPPTPERD GSKGERGAPRGSPGPPGSFD FLLMLADIRNDITELQEKVFG HRTSSAAEFPLPQEFPSYPETM DLGSGDDHPRRTETRDRLAPRD
7701	38069	A	7755	146	373	

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7702	38070	A	7756	678	1582	CQGN SPLSGVWPSGDWEDKHS Q*CPVVCSPQNILSQT SRHNDR DYRLPRAETHSSSYAQYSTPSN LVVHPTATPSTVPSSPFTLQSD\ YQPKKSF DANGASTLSKLPTPT SSVPAQKTERKESTSGDKPVSH SCTTPSTSSASATE/S/TTSAPPTS ASAGPCFSCSTARQYLPYFRDP NLLRTIAVLLCKATVAALINS*C GTYLKIK*SSYSSCDTSLTAVYN S*VSYCW TICFQHNVSDFSSCSA APTQ AQP SNQSPMSLTSDASSPR IICFSKE*GTPQTNTVPIQTGFGS TPPVSSQAKG
7703	38071	A	7757	1	1365	MHLIPPATNCDTLVECCLPGL TRDLVCTAFTGFGTSYSPQENS HNHSALHSSNSHSSNPSNNPSK TSDANILSQT SRHNDRDYRLPR AETHSSSTPVQHPIKPVVHPTAT PSTVPSSPFTLQSDHQPKKSFDA NGASTLSKLPTPTSSVPAQKTE RKVLQQLSKHNRKVMIRSALIT SIILDLLYIEKDLRYQKNIESTSG DKPVSHSCTTPSTSSASGLNPTS APPTSASAVPVSPVPQSPI/PSLT SGPKSS*TIA\PALQATLQLNNS NVDISKINEAQPSNQSPMSLTSD ASSPRSYVSPRISTPQTNTVPIKP LISTPPCFITAKG*LLQ*LSQGTS VHSQPHTAACNC*/PSSK/SHEP VSPRSLQRSSSQRSPSPGSQFILL NSSNGIQMATVVPQEFLARFH VFHLTPGTRRPPFQWKISLKHV SRDGPADSWQEEGRASRFTAE GRRH

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7704	38072	A	7758	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVFIPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHLPIYRVSRKAANFEWSPEQEKALQQVQAAVQAAWPLGPYDPADPMVLEVSVADRDAWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETA VGKTARDGEAVCD
7705	38073	B	7759	56	3476	
7706	38074	A	7760	3	591	DPADPMVLEVSEADRDAVPIS ESQQRPLGFWKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWT VALQPLSGTSLQDSSEEKSSQW
7707	38075	A	7761	1	558	
7708	38076	B	7762	1	1189	
7709	38077	A	7763	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLD SKSFSFETRGTGSPCSSLQTAYC GTLWIVQGV
7710	38078	B	7764	1	474	
7711	38079	C	7765	1	3384	
7712	38080	C	7766	1	333	
7713	38081	A	7767	1	390	
7714	38082	A	7768	3	728	
7715	38083	C	7769	184	529	

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7716	38084	A	7770	2	837	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGPRTHPVVIFPVPECHIGIDMLSSRQNPHTGSLTRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL
7717	38085	A	7771	2	469	
7718	38086	A	7772	3	587	YPASAGLMLQNFVGIVGLRYHFAIHSPAAGGLLDGLHAAAIQGITKIETTPNHQRAPAHWTLTQQAHLQPSPLHFNLPPLTCLMHCPTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEEVLQAEGDFQPFRVTVHWGKGNDQTFRGLLDTGSELTLIPGDPKHHYGPPVKVGA YGAQLL
7719	38087	A	7773	1	633	MTVDYRKFNQVVTPMAA/AVPDAVSLLAQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQGYINFPALCHNLIRRELDFFLLQDITLVHYIDDILLIGSSEQEVVNTLDLLIHKRSKEAHTAASRIRVSCLPEQKSHEQTLPEQVPSSGDIKEYFPNAFVLLTTASLQGGDNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
7720	38088	B	7774	1	1431	
7721	38089	B	7775	75	947	
7722	38090	A	7776	6107	6706	MVVVFLHKCLHYFHSTQLVISRYNSPTSEYFQALDLTWRALGT VGSAPPILPDLGGTNRQPPILSHSGLHRNVLPETDSQSEDRLPVTWLA VSACCQQQMVGGNP TRSKL*RTGSHYHLPGLWEP*RP HFPHAGSLAWQWLLCSSLEHSF GA*ELPCNPCKGWCLCPCHFIFYIFFNSFLSNCPQLCNWHSSYFI

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7723	38091	A	7777	1	3179	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWVGHDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDTPLFIGKVRTLFP FVNGSAEIMLMPSNQQHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
7724	38092	A	7778	281	1531	VRVLSPVEKELKLWKNTHKLL SYPTVGA AVTQLQNL TAMGVI GSHGARGQVVALNRQRQGD LPFTRVTVHWGKG/NMQIFGGL LDTGSELTLIPGDPKHHCPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHIGSLTGRVRAIMVGKA KWKPLELPLPRKIVNQKQYCIP GGTEEISATIKELKDAGEVIPIPT TFPLNSPIWPVRKTDGCWRMT VDYCELNQVVTPTAATVPDVV SLLAQINTSPGTWYADIDLANA VFSIPVHKAHQKQFAFSWQGGQ QYTFTVLPQEYINSLGLCHNLI WRDLGDFLLQNLITLLVHYVD DIMLIGSSEQEVANALDLLVSM ASSRVYPDQLTEEEKARFTDGS ARYAGTTRKWTAAALQPLSRIS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7725	38093	A	7779	332	2159	RGYVFCSWKKTDGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRDL DCFSLPLDITLVHYIDDIMLIGP RQLLACYWALVETECLTLGHQ VTI*PELPIMNWVLSDPSSHKVG HEQQHSIIKWK WYVHDWARA GPEGTTTPVISQWPHEQCGHGG RDGGYAWAQQCRLPLTKADL NTATAKRPIQQQRPTLSPOYG TIPQGDQPATWWWVDYMGSL PSWKGQRFLTGIDTYSYGFA YPACNASAKTAICGLTECLHH HDIPHSIASDQGFHMAKEVRQ WAHDHGIHWSYHVSHHPEAA GLIEWWNGLLKSQLQCQLGDN TWQGWGKVLQKVYALNQHP IYGTVSPIAKIHRSRNQGLEVP LTITPRDPLAKFLLPPATLQSA GLEVLVPEEGTLPFGDTMIPLN WKLRLPPRHFGLLLPLNQAK KGVTVLAGVTDLDYKDEITLLL HNGGKEEYAWNTGDPLGLLLI LPCPMIKVNGKLQQLKPEALVP KGVVFPFGDTTMLSLSWKLRLP SGHVGLLMPLSQVQKGVTVL
7726	38094	A	7780	84	202	
7727	38095	A	7781	1	551	RWGSHTVAQAGVQWCDHGSL QPRSPGVK*SSHLSLLGSWNHR HATTTPG*FCFFSRIRSHCVAQA GL*LLTSNHPPALASQTIVGITG VSHWTWPNTGFSVLTATNKNL KFFHYAISKCLVRACLSSRLKI EERNKALSAPVVSVSIFDRVLR LLGYSASDWQPEFVETAVSNFV IYGIFRGQ
7728	38096	A	7782	1	678	MPACRLGLLATALIISLLLFGFTI VSGTGAETGVCPQLQADQNC TQECVSDSECADNLKCCSAGC ATFCSLPNGQLAE*FESEESSL DTVSPFVVFSISSTLRIE*ARA GDSSQ\DKEGSCPPGVTI*LFPSS GLC\RDQVPGGTAQC PGQM\K CCR\NGCGKVSCVTAQFLSSSH HQA EQVRRDSFLPGPASGFQAH LPSPFFGTLYSLFGLTTSFSLSQP

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7729	38097	A	7783	1	1972	MAVNGCLEGPSSNFLSCLFIVA LVGSESTHPLCLEQPATQETRY QLQLRPAQRASWIGYAIAHYL LEDYEMAAKILEEFRTQTSP DKVDYEYSELLLYQNQVLREA GLYREALEHLCTYEKQICDKLA VEETKGELLQLCRLEDAADV YRGLQERNPENWAYYYKGLEKA LKPANMLERLKIYEEAWTKYP RGLVPRRLPLNFLSGEKFECL DKFLRMNFSKGCPPVFNTLRSL YQDKEKCAIIEKL VVG YETSLK SCRLFNPNDDGKEEPTTLLWV QYYLAQHYDKIGQPSIALEYIN TAIESTPTLIELFLVKAKIYKHA GNIKEAARWMDEAQALDTAD RFINSQCAKYMLKANLIKEAED MSSKFTRGGTSAVENLNEIQCM WFHTECAQAYKAMNKFGEAL QKCHEIERHFIEITDDQDFHTY CMRKITLRSYVDLLKLEDVLRQ HPFYFK/EQARIAIEIYLKAS*QP PYR*GIKGTRRLDTAK\LSDEL KKLRNKQRRQKKAQIEEEKK NAEKEKQQRNQKKKKDDDE EIGGPKEELIPEKLAKVETPLEE AIKFLTPLKNLVKNKIETHLFAF EIYFRKAAKMVYYLDPSQKR AIELATTLDLSTNRNLQTCME VLEALYDGLDGCKEAAEIYRA
7730	38098	A	7784	264	429	HRAAPATSDTQE*HRSNAFGEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEETLFSN
7731	38099	A	7785	1	681	
7732	38100	A	7786	415	692	
7733	38101	B	7787	1	2204	
7734	38102	A	7788	1	615	MPVDHPPIKAFSEKRTSQSVNM LAKTHPYNPLWAQLEWFKLLEI SPKSPINTDKFLLKRLSVPGSDS CRVRMENVLASQVLHPG\QLM M*EGSGWAEARIT/V/CS*AANP *KWHPASLPLPW*CRVRMENV LASQVLHPGHADDVGGKWLG RSKDHPRAPEQQTRESGIRLPSLF PGSAEQPWRGNAQWHLWKA LRGVFGMIPDSLLYEFHQSAKK SSHFKPPQLLYWTLVNFLIPFS LHSSTWFMWSSNQGIMCKEEV

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7735	38103	A	7789	3129	3197	TQNRACSPDTEQLARQSGTYP VSLGQATVLEDSKAALPGLGPT LMAVTVVTEAAVAIGCEAAH SSREDFTNHQLWRRTVEGKKG EGKNKFMSGGVNTTVPLLKTS RKGSPDSPHLREKPSLEKVTQI GSFASPESDFESRMKKMEERVK ACGPSLEASEAADVAQDPQVS RSPFKPGFQENVCCPQNRLESEG DEGESDKGFAEDRGSRNDDMAA DIAGQLSHAADLGTASHDDVT YAIKPTCWPGLDIIPSCSL
7736	38104	A	7790	1	1069	MAEKEAGMSYMVAEVLGFVA VIIAESLKRIRFFENFTVAEERS TDETFSLAEETCSSNPAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRKLSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLEK TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ E/IPADLEWQSW*R*PAMVRRK KIAISIIIFSLCEKEEAQRNFQDFF FSHFPLFESHMNRKLSAIEKAMI SCRKIAESSLRVQFYVSRLMEA LGEFRGTIWNLYSVPRIAEPVW LTMMSGTLEKNQLCQRFLEK TLLIEQINKNQFFAALLTAVLTY HLAWVPTVMPVDHPPIKAFSEK RTSQSVNMLAKTHPYNPLWAQ LGDLYGAIGSPVRLTRTVVVGK QKDLVQRILYVLTFLRCSELQ ENQLTWSGNHGEQDQVLNGSK IITALEKGEVEESEYVVITVRNE PALVPPHPTTSSRETQPLADR
7737	38105	A	7791	118	273	FSLSNLVQFFRVCNDHLYTKLH FCFLQAEVKASNFICYDSLGH LGSHHTVECIATDEHTLHLTSP MG*SQGKQFLHLRFSWACPGIP PHS

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7738	38106	A	7792	1	551	MQPELPIMNWWLSEPSHHKVG HGQQHSIIK WRWYICDWA VVG RESTTNGLAIGWSIGTWKKHD WKINDNEIWGKISMWIDLSEW SKTVKIFVSHESAHHIT*KSSAE EDFNNQWDGMTCSVDTHPLS LTTSVIAKWAHEQSDHGGRYG GYAGAAQQHGLPLTKADLAMTT AECPICQQQRPSLSP
7739	38107	A	7793	1	782	MTKIQEPSTSVKFLGVQWSGA YQDIPSKVKDKLLHLAPPTTTK EAYLGL/FGFWRQHHPH/LGTEQ EKTQLHVQAAVQVALFLEPYD PADPMVLEVSADRDALWSLW QAPISESQWRPQGFWSKALPSS AANYSPFERQLLAYWALVET EHLTMGHQVTKQPELPIMNWW LSDPSSHKVGCAQQHSIIKWKW YICDRARAGPEGTTTPVITQWA HEQSGHGGRDGGYTWAQQQG LPLTKADLATATAECPICQQQR PTLSP
7740	38108	A	7794	65	230	
7741	38109	B	7795	1	2115	
7742	38110	A	7796	1	246	
7743	38111	A	7797	1	1293	MAAAACLDASGEARPGLRPPW SQQGRKQAGALPPTKLAGLLA QLQPAEAPDLGIPVLSATREDPL SPQARKCLLPLGLSPCSQHLL WCRASCGRAWGPSRPSRVCTG LDTAVTPAPCRLSPLWTSGADK RGREASRGEGSSKWACRHPSA QTA WAVEGDRHRFLSRKGQIT GKTPSSQQQPEAWGLSCSCPH TLHTSFFLDTGPLNGGTEKAVT QTGPKHAPCSPGCGQQGGKGC GPSGTPDLGALRARAVTVGLCS SWHLQASGHHCIPQYLQOKLL VVHLVQPQPCTKVPVPSFRLQ MTIENMNHCLKFIPHKDYTANRL VSGLLQLPSNTSLVIDETLLAEQ GQLDTPGVHNVITALSNLITWQ KVDYDFSYHQMEFPCNIKVFIT SEGRSLLPADVPDSL TAPANST KHGGST*TAFSQRCCCLPC

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7744	38112	A	7798	1	2555	MPSHLNQHQIHTKEKSYKCEE CGKSFKRSSNCTTHKRIHTGEK PYRCEECGKAFRWPSNLTRHK RIHTGEKPYTCEECGQAFRRSS TLTNHKRIHTGERPYKCEECGK AFSVSSTLNDHKRIHTGEKPYT CEECGRAFNCSSTLKTHKRIHT GEKPYKCEECDKAFKRHSSLA KHKIHTGEKPYKTGSICILLQR YCWSTT*TIHFKK*S*EN/PGSC DLNTRLRLKKDYQRVGNCKGQK SSYNGIHQCLSATRSKTCQYNK CGKAFLGCSIFTEHKKIFSREKC YKCEECGKDCLSDFTIQKRIH TADRSYKCEECGKACKKFSNL TEHNRVHTGKKPYKCEECGKT FTCSSALTKHKNHTGDRPYKC EECHKAFRWCSDLTKHKRIHT GEKPYKCKECHKAFRCCSDLT KHKRIHTGEKPYKCNECGKAF MWISALSQHNRIHTGEKPYICE ECGKAFTYSSTLISHKRIHMELR PYKCEECGKTFKWFSDLTNHK RIHTGEKPYKCEECGKSFTCSS NLIKHKRIHMEVRPYKCEECGK TFKWFPDLTNHKRIHTGEKPYK CEECGKTFTCSSSLIKHKRSHTG DR/PYKCKEKGKAFRWFS\ALL NISKHKRIHTGEKPYICEECGKA FIRSSTLTSHKRIHMEERPYKCE ECGKTCIIHIGEKPYKCNECGK GFMWISALRKHKRIHTGETPYI
7745	38113	A	7799	212	461	TEEHLSPHWKGCGRKVKRLF QVRRGRGWIQTRQPGSMVKEP PLSEAGAESHVSC/RQGDCSRPP SFPLSPERVTPWLPDSHTW

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7746	38114	A	7800	1	1398	AAARELELLRASLEHQRGVSE LLRGRLRELEEAREAAEEAAAG ARAQLREATTQTPWSCAEKAA QTESPAE\GPP*LRRARPDPWTE TRAVAPAGILKSIMKKRDGTP GAQPSSGPKSLQFVGVNLGEYE SSSEDTNDSGDSENGGAEP GSSSGSGDDSGGSDSGTPGPP SGGDIRDPEPEAEAEPPQVAQG RCELSPLREACVALQRQLSRP RGVASDGGAVRLVAQEWFRVS SQRRSQAEPVARMLEGVRRLLG PELLAHVVNLADGNGNTALHY SVSHGNLAIASLLLDTGACEVN RQNRAGYSALMLAALTSVRQE EEDMAVVQRLFCMGDVNAKA SQTGQTALMLAISHGRQDMVA TLLACGADVNAQDADGATAL MCASEYGRLDTVRLLLTQPG\C DPSILDNEGTSALAAIALEAETG MKVAALL\HAHLSSGHPDQTQSG VTPLAPQTANTW
7747	38115	A	7801	3	408	
7748	38116	C	7802	141	251	
7749	38117	A	7803	1	1173	
7750	38118	A	7804	451	853	LQMHRLCGGHSLSGCGWHTAR GQELVGQCFL*GGGQLLGLQH PL/AENPTFQEYSLITSEAGLLEG RKKKNKTSRGPSPGATCPLGLP RTSPGATRPGPVS/HAAIASQRD SSRTRFSSSLDAAIARPYTTPSA
7751	38119	A	7805	1	2950	MAASRLNLVRLLSRCEAMA AEKRDPEWRLEKVGVTYSVA SGRVLFQDFTEQFQVLLPKDAQ PCREVISTLLEKMKIDKRNYQIG KTKVEPGV/EAWPLRRVRRQPD QRQGLGAHRAGEAPGTRGDAR PVHRGPLPQVGCCQPHSGAPAG AADRPRSSQAGELPHPRHHRGA EAVAAGAARAPHDLRTVRRLP PSRRAAGEAGAAGCH/RMP STFQKPTTTPWRDSSSTLSSNHP LTASGCAGWPCSRMST
7752	38120	C	7806	398	415	
7753	38121	C	7807	13	81	
7754	38122	B	7808	1	972	
7755	38123	B	7809	1	1803	

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7756	38124	A	7810	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPD GARPGPSREL AVVARPRAAPTGPSAAAMAR PLVPSSHKALLLELKGLQEEP EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNYETG YVCISILHPPV/DTDPQSGELPSE RW\NPT\QNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVP\TFLP\EY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDD
7757	38125	A	7811	2	296	LSLSFFVKAHFYVKSMLHSD ASGISGMDFYVVQ*FSWQTAY AGEVGRWLSPALTERGSGQTL* TWCWRVFCVCLE\GHMWVTEA YVTVKH*NYSKVK
7758	38126	A	7812	397	410	SPGEI*G*VPPLLG*GVLLYQPP LFKIWEAPLLPDLLQ*KLKSL WLNKALGK
7759	38127	A	7813	2	739	ELCALVFGVNTFFATIVKTIITFI VSDVRGLGLPVRKQDSVVVFL DCPSIW*LRYIDLLILRVHLQIH LWGLRGRRAEFKHI/RSAAEEKK LTRIPSVNGE*TGKSPAPANSAPP RGARDMWRTGRPAPRRPLVGG PSPSDRGPASTTSPELAVGAVN GGPSSANISRGFWQQSFHGNMC WFCAEPGVAGVPFTANIAGTEP GGLGQGRQCSLATQCHKPELK LQAKPAFPFSLSLFFLLKHIL

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7760	38128	A	7814	594	2868	CWTSRNRRIPIPGSCHPMELPRPF RGKAKVQNHQLVHHNKALIN RGS�TFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPPPVNAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYK MANANKGAMTENADENALQS DAKGKLDVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSV ECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLDPLRHQILGGKKA IQFTL QGFPTLPEGAPAGNSGSLAVHK TAQSSYRHHALLITPMSGTRF PIPGPVVNIRVFPFAPSSECRIJ YSWSWVPGSPVHCQSDGSVPI SYAPLASQYSSSFLFRNRQPYA PYDYL SVMTPSRTLREQIRIYA PSAPRLPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFRKEQKLTQ QSACKRDAELANGALGHIENN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGK WYLFTDSRGSK MTIDGINSNDIYMLGYVSNST GPYKPLNKTGLVLQMGLDPND
7761	38129	A	7815	2	474	RRFVSADNCRSLRWKSLYTPLD ADASVLISTGIDATQTNHGRQH LDETQVRVFGQHLMQGSYTTQ DGRSDVAISCCKLEMCAQQSY DQLLAASTENWRQWWQKRRIT VNGG/GSSPASDADQTPAPGFR RDVGDRDWFAWRQCLLKSALT RRRPVAYIVISSAMSGCLPKQS D
7762	38130	A	7816	302	409	
7763	38131	A	7817	199	359	ARRQQVSVKSYRWEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
7764	38132	A	7818	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVMMVSMPL QLALSGWGRFVLP

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7765	38133	A	7819	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVPLSTFGASG PENSRDCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISPGR
7766	38134	A	7820	1	770	MRVLGIETSCDETGIATYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAAALKE SGLTAKDIDAVAYTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL
7767	38135	A	7821	3	834	VGRVEIADQYQDLAILWNC LG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAAIDGFI GDVSLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
7768	38136	A	7822	1	1044	

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7769	38137	A	7823	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEGDGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGDN SPLMNNFR QYLPSLPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCREDIEVQKLKSYDKLL ASINKKPGVNGWQKRRITVNA GEAHDQALDYALYHLRIMTP AHDERSSIAAKGLTGEGYKGH VFWDTEVFLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAAKK
7770	38138	A	7824	601	853	
7771	38139	A	7825	2	644	MAQQG/RKFQAHKPAKSKTAA/ A/ASEKNRGPRKGGRVIAPKKA RVVQQQKLKKVSLCCSGWS*T PGLKASSRLCLPKCWDYRRDTL WLFLSATFICRWNLRKSESGKK IEHDVVMKA\SSSLPRKLALLK APSPRRNGAAAA\TSSKTPSLRT AGPQLQGQHPTPLPSIWGPLQV NSHRLSLFRMRTLSPSDWASPR HSSGGPKGAENPGNDQGRYSH
7772	38140	A	7826	1	2616	
7773	38141	A	7827	1	504	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7774	38142	A	7828	1	1068	MAEIQHKTIRPLLEGRDLLAAV KTGSGKTLAVLIPAIELVVKLKF MPRNGTGVLLSPTRQLAMQTF GVLKELMTHHVHTYGLIIGGSN RSAEAQKLANGINIIVVTPGRLL DHTQNTPGFMYKNLQVEDLAR ISPKKEPLYVGVDEDKANATVD GLEQGHFVCPSEKRYLLLF T FL KKNQKKKLMVFFSACMSVKYP YGLLKYIDL/PVLAIHGKQKQN KHTTTFF*YCNADSGTLLFQLE KLIEKNYFLHKSAQETYKSYIR AYDSYSLKQIFNINNLNLP H IAL SFGFKLPPFVDLNMNSNEGKQK KQGGFGYQKTKKVEKSIIFKHIS KKSSAAGSSLTQEMPVFILNNF
7775	38143	A	7829	3	1851	
7776	38144	A	7830	1	905	MVFDAKYLTGWRFEDTVVQSN MKHQPFIVVNKHNVQVEYKGE TKSFYPEEVFFMVLIKMKEIAET YLGKTVTN A VVTPAYFNDSQ HQATKDAGTIVSLNVLRIISKPT AAATA Y RQKGIDFNTSIFHALF EELNAYLFHGTLD S VEKALGN AKL D KSQIH D IVL/GPFEQGRH* MYGPGS*EIQS*R*EAEGQDVIQ EFS* K CIRYESSC*R*ETSRQD* R*GQTEDS**GY*NYQLAG*ES DSEEGRISTSKSGESLQPHNYQP VPEYRRHTRRNAWGIP*WWSS LCWSFPRAPIEAD
7777	38145	A	7831	2	886	ARGACSSWVFCGLRYWSQAY TPATMSKGP A VGIDLGT T YSCV GVFQHGKVEIIAN D QGNRTTPS YVAFTD T ERLIGDAAKNQVAM NPTNTV F DAKRLIGRIRFDDAV VQSDMKHWP F MVVDAGRPK VQVEYKGETKSFYPDEVSSMV LTKMKEIAEAYLG\KTVTN\V VTVPS\YFNDSQRQATKDAGTI AGLNVLRIINEPTAAAIAYGLD KKVGAERNVLIFDLGGGTFDVS ILTIEDGIFEVKSTAGDTHLGGE DFDNRMVNH F IAEFKRKHKKDI SENKRAVRRLRTTK
7778	38146	A	7832	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTLDPVEKALRDA KLDKSQIH D IVLVGGSTRIPKIQ KLLQDFYEAVAYGA A VQAAIL SGDKS\ENVQDLLSL\DVTPFP LGIETAGG\VM T VPH

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7779	38147	A	7833	1	218	
7780	38148	A	7834	508	883	YYHSYQADT/HLGGEDFDNRM VNHFAEYKRKHKKDISENKRA VRRRLRTACERAKSTVSSSTHAS TEIDSLSEGIDIYTSSTCASFEEL NADLFLSTLDPVEKALRDAKLD KSIQHDIALSNPDEAVAYGAA VQAAILSGDKSENVQDLLLLDV TPLSLGIETAGRVITDLIKHNTTI PTKQTQTFTTYSNQPGLIQL YEGEHTMTKDDNLLDKFELTGI PPAPRGVPQIEVTFDTNSNGILN VSAVDKSTRKKNKITITNDKGH LSKEDIEYMVQEAKEYKAEDQ KQR/D/KVSSKNSL
7781	38149	A	7835	1	194	
7782	38150	A	7836	1	1482	MVFDAKRLIAHRFDDAVVQSE MKHWPFMVVNDAGRPKVQVE YKGESKSFYPEKVSSMVLTNM KEIAEAYLGKTVTHAVVAVPA YFNDSQRQATKDAGTIVGLNV LRINEPTAAAYGLDKRHRSSLP ILTASLAGAGSL*STQA/SIEIDC LYEGINFCTSITHARFEELNADL FRGTLDPVEKALRDAKFDKSQI HDIVLAGGSTRIPIQKLLQDFF NGKELNKGINADEAVAYGIAV QAAILSGDKSENVQDLLLFDVT PLSLGIETAGGTQILTTYSDSQP GVLIQAYEGKHAMTKDNNLLG KFELMGIPAPRGVPQTEVTFD SDANGILNVSAVDKSTGKENKI TITNDKGCLSKEDIERMVQAE KYKAEDEKQRDKVSSKNSLES YAFNMKATVEDEKLQGKINDE DKEKILDKCNEIIWLNENETAK KEEFEHQKLEKVCNPIITKLY QSAGGMPGRMPGGFPGGGAPP SGGASSGPTIEVD

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7783	38151	A	7837	2	2221	PRVRPRVRSPAALGFFVASFVIG ARPTPQQPWSKGPAVGIDLGTT YSCVGVFQHGKVEIIANDQGN RTTPSYVAFTDT\ERLIGDAAKN \\QVAMNPTNTVFDCQTV*LDGR FDDAVVQSDMKHWPFMVVND AGRPKVQVEYKGETKSL\YPEE\\ VSS\\MVLTKMK\\EICRSLTLGKT VTNA\\VVTVP\\YFND\\SQRQAT KDAGTIAGLNVLR\\INE\\PTAAA IALQKFRQKRFGAERN\\LIFDL GGGTFDVSILTIEDGIFEVKSTA GDTHLGGEDFDNRMVNHFIAE FKRKHKKDISE\\NKRAVRRLRT ACERAKRTLSSSTQG\\SIKIDSL* EGIDFYTSITRARFEELNADLFR G\\TLDPGEKAL\\RDAKLDKSQIS *YLSWVGSTSYSPRLQKSCCQ DFFQWEKELELRSINPGWKA\\ AFIGAAPGQPF\\LSGRQVLENV\\ QDLLL\\DVTPLSPWVLKTAGG VHDCPPSKRNTTIPTKQTQTFTT YFWTTQPGCGLFRFYEGRALP WTKDNQPALASFELTGIP\\APR G\\PQ\\EVTFDIDANGYTPWSL AVDKKYGKKRTKITITN*QGPF *AREDIGTYGSREAEVTKLEG GGRQEGTRVSSNDF*GMPFN MKSTLLKDEKL\\QG\\RINDEGQ NRRFLDQV*\\LKLSNWL**ESRL LEKEEFHQ\\KELE*VCNP\\IIT QAGTQSARRHCQGGNPWGAFL
7784	38152	A	7838	3	757	PFPGGRVRLHPVILASTVDSY ERRNKGAARVIGTLLGTVNKH SVEVTSCFSVSHNESDEVAVDM EFAKNMYEL/H*KVSPNELILG WHDITEHSVLIHEYYSREAPNP IHLTVDTSLQNGHMSIKAYVST LMGVPGRIVGVFTPLTVKYAFY DTECIRVDLIMKTCFSPNRVVG LSSDLQQVGGASARIQDTLSIVL QYAEDILSGKVSADNTIRKVGH FLMSLVNQVPKIVPDDFETMLH SNINDLLMVT
7785	38153	A	7839	1	1821	
7786	38154	B	7840	16	1305	
7787	38155	A	7841	1	359	

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7788	38156	A	7842	2	1085	GVAPWGRGRAAPRCASATVGG SGIGRLR\GITSSGL\KMDNKKR LAYAIHQFLHDQLRHGGLSSDA QESL\EVAIQCLETAFGVTVEDS DLALPQTLPEIFEAATGK\EMP QDLRSPARTPPSEE\DSAEERL KTEGKPKQMK\VENF\EA AVHF LTEKPFELNPSQRPSYFCNRAA AYSKLGNYAGAVQDCERAICID PAYSKAYGRMGLALSSLQQHL\ EAVAYYKKALELDPDNETYKS NLKIAELK\LREAPSPTGGVGSF DIAGLLNPNPG\FMSMASNLMMN PQIQQLMSG\MISGGNNPLETP GT\SPSIQNDLASLIQ\AGQQFAQ QMMSVGIPRVV**SAQESSIRS TPSASNDQDQE
7789	38157	A	7843	225	398	FIIDYTNSCIFHQNICLICSNRNF RQSNVVMICHY*TLQEIKTFC* MNSSLWSHIF
7790	38158	C	7844	162	269	
7791	38159	A	7845	273	501	HKDQPIQTENDHPSTNFSFVLK LHDPLLNEMDLIVWVSF*Q*SC FYL VHPNCCSPLV*HP*SENPKF SNEYFLRVS
7792	38160	A	7846	1	867	
7793	38161	A	7847	185	1325	EEQQTNLASKKKSCIMLEKTEN KIRLVIVSEEEKKKVLKRMP*K MTVRAHHGISRTPHSWVESN\Y YWDICDQWMS/EPVGYMPCQH CQVAKNTVIVAPKQHLLQGSKI PWSLVTVDLMGAFSYKPQKS/N VYAIIMTDLFTKWIVILPLCDVS ASEVSKAIINIFFLYGPPQKIIMD QRDEFIQQINIELYRLFQIKQIVI SHTSGTVNPTTESTPNTIKAFLSK HCADHPNNWDDHLSAVSFAFN VTHLEPTKNTPYFQMFKEKNP LYYLPETSDSLHEVDGDNSTMF AKILDALKEADKIMENKTTSLG QMENNNDDELNKSIIIVKKKPK QLNPFHLKVGHGSFKTKEKLV GRMVVFQSWNGVGPLCHRLY YRKWMCCP
7794	38162	A	7848	2	455	MADRLTQL\QDAVNSLADQFC NAIG\VLQQCVPPASFNNIQTAI NKDQPANPTEEYAQLFAA\LIA\ RTAKDIDVLIDSLPSEESTAALQ AASLYKLAEENH\EAATCLGG MLFIEGDMLLGGRYKGALADI\ AQSQLEGQSGYP*ASLFPDS

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7795	38163	A	7849	229	560	
7796	38164	A	7850	1	1077	
7797	38165	A	7851	25	690	WPSDEAEGYSEHFVEFVKDVR KRFPQHTIMAGNVVTGEMVEE LILSGADIIVGIGPGSVCTTRK KTGVGYPQLSAVMECANAAH GLKGHIISDGGCSCPGDVAKAF GAGADFVMLGGMLAGHSESG GELIERDGKKYKLFYGMSSSEM AMEEVLLGGVAEYRTS\EGKT VEYPF*REMLEHTIPRHP*GGIR S\TCTYVGA\AKLKRR*ARTNYL HPEVHPAR
7798	38166	A	7852	768	1857	EGGHFEGGQGADSAAPFGSASI LPIKLDVHPHDGRRRAEKS KPG GNPQRQLYCQPPAGCLPGA VY RPRRSRGARMYSRYS PAERRNP DQRAGY CQAPDRLRFSRADD C RSRWRHV FHGTSRHCAGDRA V RPPPHSAAEALPVALPVFQ*PTA DQ\VLFP SLIAACYN NHQNKIIL EQEMSCVLLATFIQTRAQQRKY KRRNNRGIPRESTAREQARHNA NKAQQPRKHARNGASPAQQRK NRAAARDKDEKPAQQKDKAR QSAPEKKNRAIRGTNSREQAAK AERNRRQRGGQKGAQGGQHR EEAGEPTYVDEKAQAATSPPPQ TPHPAPDHDDAEDHRTRDTNR NAHQPKVYTHKDTPTNESR
7799	38167	A	7853	1403	2028	RRIQTNGRTFHAHGGPSRGLPE ELGKDHREKETSSRTL*QFQPN AKSPGQNLRESMNPVC/MTQQ ARRLQRLAKDLLKQVQVQDSG SWANNKVSALDRTLGEITRILE KERSRRGKGPSKEDLEGAAN/G VRRTM/WMSGNLVKESQPHPT HRPNILT*YPSIFP*RSTLLTLWL KVQLQQKL*KMEKSGKKIKKK PKR*KPG*TSGLNTL
7800	38168	A	7854	1	675	

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7801	38169	A	7855	2	1110	AQEEEAQVNEIAFINTLEAQNKRHDVLSKLKEYEQRLNELQEERQRRQEEKQARDEAVQERKRAL EAERQARVEELLMKRKEQEARI EQQRQEKEKAREGAARERARD REERLAALTAAPRSYGRVTEK NSAQ**KYSKAH/RNRLNKEK KKLLS*AVGDMQILIMPPN*PL YERKKQCSLCNVLISSEVYLFS HVKGRKHQQAVRENTSIQGRE LSDEEVEHLSLKKYIIDIVVEST APAEALKDGEERQKNKKKAKK IKARMNFRakeYESLMETKNS GSDSPYKAKLQRLAKDLLKQV QVQDSGSWANNKVSALDRTL EITRILEKENVADQIAFQAAGGL TALEHILQAVVPATNVNTVLRN
7802	38170	C	7856	65	425	
7803	38171	A	7857	1	1131	
7804	38172	A	7858	953	1311	FLFFIFFNYFFFGGRKCPLL VAPRLEVQMAVILGSLQPSPPGFK* FSLPQSPSSWDYRHAPTHAQP NFVFLVETGFHHIGQAGLELQT SGDPPTSASQTAGITGVSHRAW PGTILFLK
7805	38173	A	7859	2	857	FVDIFQRWKECRGKSPAQAELS YLNKAKWLEMYGVDMHVVR GRDGCEYSLGLTPTGILIFEGAN KIGLFFWPKITKMDFKKSKLTL VVVEDDDQGREQEHTFVFRLD SARTCKHLWKCAVEHHAFRL RTPGNSKSNRSDFIRLGSRFKFS GRTEYQATHGSRLRRTSTFERK P**TSLIPETFNVQSKQPSDSSPA LLLKQIQKS/NNYQPPISILISIPS PAPGGILTAPQMSGHPFQDDRS H WKASASGDDSHFELCPTTQNPE GTLGGMPKYDVSEINVMTAL

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7806	38174	A	7860	1	936	MELTHLQPHPEQEDVHAVGLL LGLREQHHMVSEGPRQQSWQE ERTELA A VSRLLFNMYPLLIHK NHASPGIPNLLLHPRGLRAITIA VFGKQNTYIRLEPFKINVLEQIT KHIEKLQCGEHNFPQEIQEGK SHQNQHEAHFVVELCKYFLCQ EYLPSQITILTTYTGQLFCLRKL MPAKTFAGVRVHVVDKYQGE ENDIILLSLISNRICVALSRAKKG MYCIGNMQMLAKVSLWSKIIH TLRENNQIGPMLRLCCQNH PET HTLVSKASDFQKVTEEGC/MLP CEFR LGC GHVCTRAWHPYDSS
7807	38175	A	7861	218	580	
7808	38176	A	7862	3	1636	
7809	38177	A	7864	24	386	
7810	38178	A	7865	2	999	GRVGFFFAGNPGSDSFGG LLLG LTPVLRWVADGGTIPKRHE\LV KGPKKVEKVDK\ETELVAQWN YCTLSQE\KLRRPIVAL/CNFAD FYNK\EPVIEFLDKSAEKG/S RQASHIKTH*RIVDRAESFPDNP CPGKGIKGN/D*KVDKHDDLQA GASSSPVGGPGRWNGRHRFLL PSGGCGLCCFS*AEPWKEIKAG V\CHTCGAGLSRRMMIIVLNGT KEDVDLLKTMMEEERL*SEAG KENKENPRQQSLFQNDVSERS PRAIKS*DRGSLKKPAFDSREK KTNLAPKSTAMNESSGKAGK PPCGATKRSIADSESEAYKSLF ITHSSAKR
7811	38179	A	7866	1	559	MGCDGGTIPKRHEL VKGPKKV EKVDKDAELVAQWNYCTLSQE ILRRPIVACELGRLYNKDAVIEF LLDKSAEKALGKAASHIKSIKN VTELKLSERALKEIKA EVCHTC GAAFQEDDVIMLNGTKEDVDV LKTR\WRREG*ERRGKKTKKP KAAEVCFQNPVDSGRKPQGPS KVKTREALKKPSP
7812	38180	A	7867	188	368	YVACMPAWPNVTVANQLFNV YFPARDMTVPSSPG/QPVVDQL STQQQARRDALEVVG YEDS
7813	38181	A	7868	179	554	LRPADPRSLVPGWALGLGPGAI LGPGRVTFPGGRPPPTHPPSLSF PPGGRQPLWVPALPAEEGRE/R LGRERE EGRGKAGAGMA*AGL VL*CLQLQVQGGQLGGSWLST RLRSPRCHPWLLRRHLP

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7814	38182	A	7869	2	131	YKSELEEQLTSVAEEMRARLSK ELQA*KDRLGENMEKVRGRLV KYRGEVQAMLGESIEELRVRLA LYLRKLCTGFLRDADHL*RPA GREYGESKRTL
7815	38183	B	7870	1	3639	
7816	38184	A	7871	279	1077	IQHPRLSADDFRVNCETEPAM/* HAVENDIHGLCELQLETEIQAF KEELL/FMKKNHEEEVKGLQAQ IASSGLTVVVDAPISQDFAKIMA DIWAQYDEVAQKNREELDNRR SQQIEESTTVVTTQSTEVGAAK AMLTTELTRTVQFLEINLDSMRN LKASLENSLREVVARYALQME QLNGILLHLESELAQTWAEGQC QAQEQALLNIKVKLEAAIATY RRLLEDGKDFNLGDTLDCSNS MQTIQKTTTRQRMGKVLSET NDTKLRH
7817	38185	A	7872	712	855	
7818	38186	B	7873	50	788	
7819	38187	A	7874	201	372	ICQMILKRRVLS*TQKHQATHG WNSAYSLTAPFPVSCQDHLCP L*AEAQISIKEEP
7820	38188	A	7875	3	323	FFFETEFHSVAQTGVQWHPSS PQPPPPRFK*LSRPSLPSSWDYR HVPSPGNFLHFQ*KRSTNQ GLELPTSGDLAAFA/SPSARITG VSHCARPNYQCFLEFKY
7821	38189	A	7876	1	911	MLLTLAGGALFFPGLFALCTW ALRRSQPGWSRTDCVMISTRV SSVHAVLATGSGIVIRSCDDVI TGRHWLAREYVWFLIPYMIYD SYAMYLCEWCRTDQNRAPSL TLRNFLSRNRLMITHHAVILFVL VPVAQRLRGDLGDFVGCIFTA ELSTPFVSLGRVLIQACMNEMT ESLKQQTLLYKVNGILTLGNF FPCR/ILLFFPMV\WSYGRKKGL SLVPSTLQHPILTATWANAFPR* APQIYWFCLLLQKAVRLFDT QAKKDG*MLLGVRRLTPAAS STQHSMQDQIPVWVASDFGY
7822	38190	A	7877	2	283	SCHCTPAWILALSPRECSGAIL AHCNLHLWG*SDSPASASRVA GTAGAHCAWLIFCVLVEMGF HRVAP/GLVLNS*AQTIRLPRPP KVLGLQA

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7823	38191	A	7878	1	1042	PKVRSPIKRLAPAPAFVRKQE LKKIVDPALL*KKS*EFGHLDRDI QPQKRPPPLL*KWPR\YIRV\QG RRAILYK\RLKGPFCDPYGFQTQG PGTPQTS*SSLLKL\AHKYRPRD KAQRSKQRLLA\RAEKKAAAK GAVPQERAHVLRAGV\NPVSP PLVGEQEKLSLVVIA\HDRGSPS ELVVFLPALG/RVKMGVPYCIHK GKGKTGDGLVHQKALHPLSAF TQ\VNSIEDKGAF/ALKLVGSYQ GPNYNDRY-DEVRGSFTQNTVIH KSFSQITGWLNL*EVLSDDLG TAKQN*RN**P*KSQKTVSQAN CLFLSFQIRRHWWGNNVLGPKSV ARIAKLEKAKAKELATKLG
7824	38192	A	7879	3	472	GRGVA YRGPSPRGTGPGRGDE RLQHGGG\SREGPPAAPAAAAP GYGQSCCLIEDGERCVRPAGNA SFSKR VQKSISQKLLKLDIDKSV DLFQLQVNTLRRYKRHYKLQT RPGFNKAQLAETVSRHFRNIPV NEKETLAYFIYMVKSNKSRLDQ
7825	38193	A	7880	3	638	GRGVA YRGPSPRGTGPGRVR*T ASARRRTAAKGPPPPQLPPRA TAKSCCLN\EDGERCVRPAGNA SFSKR VRKISISQKLLKLDIDKS VRHLY\CDFHK\NFIQ\SVRNKR KKEDQVYDGRENS/SPSTDTDIP EVD\LFPAQVNTLRL\RYKRH* QVARPRPGFNKAPVSRQL*VDT FRNIPVD*KETLALLSSSMVKSN KSRLDQKSGGWQAA
7826	38194	A	7881	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAACKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKSGNNRCRRGCIGTLLH CWWDCKLVLCKSMWRFLR DLADPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
7827	38195	B	7882	446	625	
7828	38196	A	7883	1	1875	

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7829	38197	A	7884	31	809	KPRLNYYVKNAEASGADAINW KKGYY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWVYKRP TLHLIDVPETLNAHKRQERSK TDTLTSQLELEKQEQTHSKAS RRQEITKIRAELEKEIETKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAIAKNDKGDITSDP TEIQTIREYYKHLIYANKLENL EEMDKFLDTYTLPRLNQEEVES LNRPIITGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL -
7830	38198	A	7885	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGTLYKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGVP VGWGKRGGIALVDIPNVNDKL MVLEVLAIRAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNI CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPLTPYT KHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM

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7831	38199	A	7886	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITDPTIEIQITIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGFRPISLMNI DAKIL
7832	38200	B	7887	1	3570	
7833	38201	A	7888	2	1624	
7834	38202	B	7889	67	3156	
7835	38203	A	7890	1	1416	MIILIDAEKAFDKIQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSQY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSLPHKWC WENWLA VCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTL
7836	38204	A	7891	1	1932	

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7837	38205	A	7892	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHKKLIH HDQVGFIQGMQGWFNIRKSINV IQHINRTKDKNHMIISIDA EKAF DKIQQHFM LKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSGYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYA AKKHKMKC SSSLAIREMQIKTTMRYHLTPV RMAIHKKSGNNRKIQ/GGIWCD RIL*R*TTTCRVAKEIQLS*RR/W KRLQRTL SIPVLDAV*PPMF*AS
7838	38206	B	7893	1	1710	
7839	38207	B	7894	1	2265	
7840	38208	B	7895	1	2142	
7841	38209	A	7896	1	1791	
7842	38210	A	7897	1	1878	
7843	38211	A	7898	1	2091	

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7844	38212	A	7899	1	1751	MIISIDAEKAFDKIQPFMLKTL NKL GIDGTYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRJNIMKMAILP KVIYRFNAIPIKLPMPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKCSSSLAIREM QIKTTMRYHLTPVRMAIIKKSG NNRNHLDKFKHILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA

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7845	38213	A	7900	1	2540	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLIDIYGTLP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITSYLSHSAI KLELRIONLTQNHSTTWKLNNL LLNDYWLHNEMKAEIKMFFET NENKDTTYQNLWDAFKA VCR GKFIALNAHKRKQERSKTNTLT SINKIDRPLARLIKKKREKTQID AIKNDKGDITTDPTMQTTIRE YYKHL YANKLENLEEMDKFLN TYTLPRLNQEEVESLNRPI TGAE IVAIINSLPTKKSPGPDGFTAIFY /HEL/LKENKIPRNPTY/RGCEGP LQGELQTTAQ*NKRGYKQMEE HSMLMDRKNQYRENGHTAQG NLQIQCHPHKATNDLHRSGKN YFKVHMEPKKSPHRQVNP KPK EQSWRHHAI*LQ TILQGYSNQN SMVLVPKQRYRSMKRNALRN NAAYLQLSNL*QT*EKQAMGK GFLI**MVLGKLASHM*KAETG SLPYTLYKNQFKMD*RLKH*T* NHKNPRRKPRHYHSGHRHGQG LHV*NTKSNGNKSQN*QMGSN *TKELLHSKRNYHQSEQATYKL GENFCNLPI*PRANNQNLQ*TQ TNLQEKNKQPHQKVGKGHEQT LLKRRHLCSQKTHEKMLSITGH QRNANQNHNEIPSHTS*NGNH* KVRK*QVLNGLDDVQLFR*NK QPCCSHKACL VVSSYRRA*SLV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hud	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7846	38214	A	7901	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAEDEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGGENGS KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTEIQTIREYYKHL YANKLENLEEMDTFLDITYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTIQGYNSQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
7847	38215	B	7902	1	2337	
7848	38216	B	7903	1	1677	

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7849	38217	A	7904	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKLL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENGTIY QNLWDTFKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDA IKN DKGDITADPTEIQTSTIREYYKHL YTNKLENLEEMDKFLD TYTLPR LNQEEDESLNRPITGSEIAIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKL VLEVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKDDTNKWKNI PCSWVGRIN IVKM GILPKVVYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
7850	38218	A	7905	1	2310	
7851	38219	A	7906	195	791	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSSLAIREMQIKTTMR YHLTPVRMAIHKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTF SVTIAVQK PTRLSH
7852	38220	A	7907	1	984	
7853	38221	A	7908	1	2076	
7854	38222	A	7909	1	1872	
7855	38223	B	7910	1	3309	
7856	38224	B	7911	133	3213	
7857	38225	A	7912	1	1364	
7858	38226	A	7913	1	3249	
7859	38227	A	7914	1	2757	

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7860	38228	A	7915	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSHTIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRJKNLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELEQIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKKREKNQIEAIKNDKG DITTNPETQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLLKLFQSIEKEGILPNSFYE ASINLIPKPGRDTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSQIVPVC R*H DCVSRKPHHLS PQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
7861	38229	A	7916	1	4729	

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7862	38230	A	7917	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQKLEKQEQTTHSKASRRQ EITKIRAELEIETQKT VQKINES RSWFFERINKIDRQLARLIKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHL YANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAEFYQRAIRQEKEIKGIQLGK EEVKLSLFADD MIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIP KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWY WYQN RDTDQWNRTEPSEIMPRIYNL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLD PFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
7863	38231	A	7918	1	1205	
7864	38232	A	7919	1	2274	
7865	38233	A	7920	1	2307	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7866	38234	A	7921	569	3030	RKH*TWKRTSSTSHHKNM PN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTEIHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIISID AEKAFDKIQPPFMLKTLNKLGI DGT YHKIIRANYDKPTANIILNG QKLEAFPLKTGTROGCPLSPLL FNIVLEVLARAIRQEKETEGIQL GKEEVKLSLFADDMMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQVFLYTDNRQTESIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSL FNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMKLKSFCTA
7867	38235	B	7922	1	3171	
7868	38236	A	7923	1	2646	

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7869	38237	A	7924	321	2211	CCQFSMARRGHLPRSVQVSIPG QSPVPRAAYQDSGRYKEPTAD C/VGPRQT*CMAPHCHLGGWH MLALSLGKGAGAGGKESTWEP SPGIRMTKTYSTRREQSHPTI/ KGQIKQMNLRETCSWTFHKKF LKTVAFQISHPHKNTCLAMAVS ANRSMRQKFNKDTQELNSALH QVDLIDIYRTLHPKSTEYTFESA PHHTYSKIDHILGSKALLSKCK RTEIITNYLSDHSAIKLELRIKNL TQNRSTTWKLNKLLLNDYWV HNEMKAEIKMFFETNENKDTIY QNLWDAFKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAELEKEI ETQKTRQKINESSSWFFEGINKI DRPLARLIKKKREKNQIDTIKN YKGDITTDPTIEIQTIREYYKHL YANKLENLEEMDKFLDTYTL RLNQEEVECLNRPITGAIEVAII NTLPTKKSPGPDGFTAIFYQRC SRWIKDLNVRPKTIKTLEENLGI TIQDIGTGKDIMSKTPKAMATK DKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKSNNPIKKW AKDMNRHFSKEDIYAACKHM KKRSSLAIEMQIKTTMR
7870	38238	A	7925	1	3057	
7871	38239	A	7926	1	1830	
7872	38240	B	7927	1	3192	
7873	38241	A	7928	1	3484	MGTSEVQNGEERAGTSGQGSV EQLSGSSVQLPPGLKLCFEPYFS SCASDCILHASPLSLMAASGSQ NPNLWASWLCKWVQCPERQ LGCHLTSSVIYGLRYPQAKRS ELELRDCEGLCNQTSPLSSLDG MGWKAAAEESNSGIRNIWIP AFATHKQYNVRQVISPPYWS HRGNGNNSLCVTRLSSGLKQP VAGTGRGLEGGSGTRDLM PFL SAAPKEQPPI LAPARRSWFFEKI NKIDRLLARLIKKKRE

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7874	38242	A	7929	1	1946	NLTQNRSTTWKLNLLNDYW VHNKMKAEIKMFFETNENKDT TYQNLWDTFKA VCRGKFIALN AHKRKQERSKIDTLTSQLKELE KQEQTTHSKASRRQEITKIRAE KEIETQKTFQKVNESSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGYITDPTEIHTTIREYYK HLYANKLENLEEMDKFVGTYT LPRLNQEEVESLNRPIITGSEIVAI INSLPTKKSPGPDGFTAIFYQRY KEELAGRDTTKENFRPISLMN IDAKILNKILANRIQQHIKKLIH HDQVGFIQGMQGWFNICKSINV IQHINRTKDKNHMIISIDAEKAF DKIQQPFMLKTLNKLVLVRLAR AISQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSQYKINQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKLLSK EIKEDTNKWNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKATLKFIWNQKRARIA KSILSQKNKAGGITLPDFELYY KTTVTKTAWYSYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK
7875	38243	A	7930	1	4801	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVNNEMKAEIKMFF ETK\ENK\DTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRPLARLIKKR EKNQIDTIKN

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7876	38244	A	7931	1	3146	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDTFKA VS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTTHSKASRRQ EITKIRAEKIEITQKTLQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK
7877	38245	A	7932	1	2669	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAEKIEIT QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIK\NDK GNITTDPTIEIQTIREHYKHLYA NKLENLEGMDKFLDTYTLPR NQKEVESLNRPI TGSEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LHINRAKDKNHMIIISIDAEKAF DKIQQPFMLKTLNKLVLVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLL SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKHLFKENYKPLL KEIKEDTNKWKNI PCSWVERIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYSYQNRDIDQW NRTEPSEILPRIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKLD PFLKPYTKIKSGWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKAKID

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7878	38246	A	7933	1	2962	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
7879	38247	A	7934	1	4220	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKTSRRQEITKIRAELEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKRE
7880	38248	A	7935	1	3229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLRDIIQENFPNLARQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKDRSTRQ KVNKDTQELNSA
7881	38249	A	7936	1	3227	MGDFNTPLSTLDRSTRQKANK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHHTYSTTDHIL GSKALLSKCRRTETIITNLSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYGVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEIETQKSLQKINE SRSWFFERINKIDRPLARLIKKK REKNQIDTIKN
7882	38250	B	7937	1	2089	

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7883	38251	A	7938	1	3527	MELKTKARELREECRLRSPCN QLEERVVSAMEDEMNEKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSDHSAIKLELRIKNLTQNHST TWKLNSLLLNDYWVHNEMKA EIKMFFETNENKDTTYQNLWD TFKAVCRGKFIALN
7884	38252	B	7939	1	5238	
7885	38253	A	7940	1	3587	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRLRSRCDQLEERVVSAM EDEMNEKGEKGFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLRQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDLIDLIYRTLHPKS TIEYTFFSAPHHT
7886	38254	A	7941	1	6202	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH LKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSHSA AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDAFKAV CRGKFIALYAHWRKQVRSKM DTLTSQLEELEKLEQTHSKASR RHEIAKIRAELEKEIE
7887	38255	A	7942	2	3134	WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYTF FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAK NAHKRKQERS

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7888	38256	A	7943	1	4455	MELKTKARELREECRLSRRN QLEERVSAEMDEMNEKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIIDIYRTLHPKKS
7889	38257	A	7944	1	6108	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVVVICIETH LTCRDTHRLEIKGWRNIYQANG KQKKAGVAILVSDKTDKFKPTKI KRDKEGHYIMAKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSTLIMGDFNTPLSTLDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFPSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKKLTQN RSTTWKLN
7890	38258	A	7945	2	788	CGLAIYNCTIVDLHFPLALYKK LLKKKPSLDDLKELMPDVGRS MQQLLDYPEDDIEETFCLNFTIT VENFGATEVKELVLNGADTAV NKQNRQEFVDAYVDYIFNTSV ASLFRCFSSGFHKVCGGKGLAR LFQPNELQAMVIGNTHF*WKG TGKDYRNTKGNIAEHPTIKIF WEVFHELPLEKKK\RFLFLTG S\DRIPILGMKSLK\LVISTGGG E\EYLPVSHTCFNL\DLPKYTAK KETLRS*T*SQAIDHNEGFSLI
7891	38259	A	7946	1	1647	
7892	38260	B	7947	363	550	
7893	38261	B	7948	1	1123	
7894	38262	A	7949	1	3136	MVTHQQPAARKPNMTSKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS MY NSDTDEDEETEPSSSGQIIENSI TMNKMKLLKAKMKNMNL SKK HITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRGKNQDAYTEGGLS TIKTVNCSSSLTLRRSKTSEDQ EKKERRTPSDDEED

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7895	38263	B	7950	303	1010	
7896	38264	A	7951	3	280	
7897	38265	A	7952	3	514	FYLKELDPAEHSYVLIRKIDPAL VWGLTGDQGTTPKTRLLMITLD SIFMQASCVPPEVVWEVLRVLE AHSSKKHFVFGESMKLITKAS VQQEYLVHK*VSHSNPTLYVFL WGLSKETRQMEVPEFVAKVND THPSSFSVGSK*GI*EKEGGRYP VPEMGSCRLVTVTASV
7898	38266	A	7953	2	351	
7899	38267	A	7954	2	529	EKGERPHWSNKPNSLKRTHL DIDENPASDFDDSGSLLGFKYG SGQKYGGIPYFSHRQVR**EKN VKLKAKYLNMRGQIKMKNKHI FFTKETEKPFKKSKILSKVEKF LTWVNKPMDEEASQESSHDN GHDASTSCDSEEQDMSVKKGD DLLETNNPEPEKCQSVSSAGEL
7900	38268	A	7955	1	1370	MPVGTSNFLLLGLENPNLPLT RSPFPQSREASWGIQATTGP GEGECTRLGFSLLLDVFCALHG PREKCVIELRSGHLLAISPGGVR EALISDETYNIVWGHRRGFAQV AIDAKVVEKFLTWVNKPMDEE ASQESSHDNVHDASTSSDSEE QDMSVKKGDLLLETNNPEPEK CQSVSSAGELETENYERDSELLA TVPDEQDCVTQEVPSRQAETE AEVKKKKKNKKKNKKNGLPPE IAAVPELAKYWAQRYRLFSRFD DGIKLDREGWFSVTPEKIAEHIA GRVSQSFKCDVVVDAFCGVGG NTIQFALTGMRVIAIDIDPVKIA LARNNAEVYGIADKIEFICGDFL LLASF*KADVFLSPPWGGPDY ATAETFDIRTMMSPDGFEIFRLS KKITK\NIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNKLKTI TAYFGDLIRRPASET
7901	38269	A	7956	3	560	RIHTGEKPYDCKDCGKAFGRTS ELILHQLRLHTGVKPYECKECGK TFRQHSQILHQRTHTEKPYV CKDCGKAFIRGL\QLTVHRRJHT GARPYGVLKECGESLLDSTHS* LLHQ\RIHTGAEPEYCKECKGK FIHSSEVTRHQRIHSGEKPYECK ECGKAFRQHAQLTRHQRVHTG DRPYESAED

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7902	38270	A	7957	155	1288	HTTASQTTMSQAVR/RRRSDYL SSARR/RRDPARSKPTQGGPPPN PPPTRQGRPTALTNPSPQPRPRHR AHPHQHATPKPRTNEEQEGRR HTKQPNPTRTEPRPPNRRGRPN PQTRRTKQNTTPQAHTSTRKN ARTPGLCP*CVKGKTEGGYDA RASARGPYMAGVSWPGEHEDP GAPEARRGRRALPG\GSAFP STHTESTPKTTAHTSNDRRNRE QRVKKKTYKTTRS R GANRNST ERHEDGYFYGSLTTGPLPWHSA IHSVSAGQPWSLKFTVGLQQAS EGYFSQSQERSLPNRKSSVPRLR LLFLQQASRLSELPLGTEGPGSL LLRPREELACTGKRRKTGGAIM GEVSVCELSLPAPAFQSPVQLC GCQPEKA
7903	38271	A	7958	1	2045	REAAAAATPSFPPSSSVRPSVRAS VRSARSGPKHGRRLQRP PPGA/RWRLTRR*SERRARPTGLCTH MKMAPMTSSLQHKEGACRSF RDTLRTRR*CTASAVSRTPK\RS AKIRAHQLGGRCA*CPQVRLC QPRG*GGRVLPGCRRDRERQQ RGRHRRGCHRAAL*RAGATL QPCAAPTAAARG*ER/SSPWAPP TRRRMQLWK*SGLTESSGSRP RRKKSCGRRRSGRRPWMRGS SSRSGWSRSGRSKRSASGATGS GSSRSRSTGGNSRL*KRKRPRG G*RSSLSLVTIGMRKRPT*RSQ SRRWRRQQLLPSGLTTQSSS SSRKESHRPLRAAVMYPRPSTI DQAATWTATGGWRPLPSRGA RLTPAPPPLSLSR*SGPWMRSP P/PQPPPLPPPPPP\PKRPRSPAPS* TVRRPEQQPLRPGPAPWRSPLR HRRLPGQAALQRT*CSWSLQS RLSWLLPWSLPQLTPRRSTMQL TPLKLTLPLLTPLPTTYPPPPA SLTYGLATGKGPPHSRVSPGPP RHPRVLRSPWQRCPCWMRWL RSHCCQQA KAVPPFSTLMSCLS RQPPSVTQRKWKGSPWLPPRPQ LCPQPLRSWSKSRSRPTC*PM ARPPRRRGPRPSEGYFSQSQEEE FAQSEELCAKAPPVFYNKASE NVIHMLGCRPSSRRGGGLRGW
7904	38272	A	7959	3	174	

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7905	38273	A	7960	3	862	GVMASRTL L L L L L L L L GALALTET WAGTHSIRYFSTAVSRPGRGEP RYIAVGYYDDTQFDAATPRM* PQSPWLEQEGPEYWDRSTRNIR PAHRLTRVNLPMPRYYHQ* AGTGIFHGIRRYIPDTCVQTHM IHHSVSDYKATLRWCWALGFYP VEITLAWQ\QDEEDQTRDHEL VETRPAGDGTQKWA V V V PS GQEQR Y TCHVQHEGLPKPLTL RWEPSQPTIPVGIHAGLVLFGA VITGAVVAAM/WQEEELRTFS SHR*SELTSERASSDHAQGS DV SLTACKV
7906	38274	A	7961	1	591	MVTDYAIELFLQASLILLSSTLP YNEREMGLSIFALLTLTVFL L L L L ADKVPETSLSVPIIKYLMFTMV LVTFSVILSVVVLTLHHRSPHTH QMPLLVPSDLHSQTSAPVASKK AQTRERPDAGAPSLFFSRKWLG YIARQLQE QEDHD/VAEGGLAV CGHGS GPPLPVDFHHLHQ RWD PSHLPGRHVPLAPSRPLSL
7907	38275	A	7962	1519	1888	ILKHPTLDKELITYLFYLFIFL RRNFTLVA*ARVQWCDLAPPQ PLSPGFKPFSC LRFPSWDYRYA PPYLANFVFLVGTGF\ SMLVRL VSNSRPQ/CDPPASASQSAGITG VNHHA\RTFNF
7908	38276	B	7963	280	1977	
7909	38277	A	7964	994	1651	CRGSQPAPPLTPHPNAPLGPSD LHSQTSAPVASKKAQTR\GDLM PEPPHCSSPGSGWGRGTDEYFIR KPPSDFLFPKPNRFQPELSAPDL RRFID/VSKPGCGPASGATGGV SSISYIARQLQE QEDHD/VAEGG LAVCGHGS GPPLPVDFHHLHQ RWDPRSSWSHVPLAPSRPLSL KTGGLRPGPLPVEVREFGDTV K PYPSLPLNSFTRNLGLLFRSG

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7910	38278	A	7965	10	533	DEVSLCCQAGVQLHDVGS LQT ASQVQAILLPQPPEVAEISGACH HACLIFVFLVEMGFHHIGQAGL KLPTSGDLPASASQSAGITGVS HRARPASSYLFFF*DEVSLCCQ AGVQLHDVGS LQLPPRFKRFS CPASRSS*DFRRLPPRLPNFCIF/ M*RWGFTILARLVNSRPQ/CD LPASASQSAGITGVSHRARPASS Y/CIFFLRWRLTIAQAGV**CNL SSLQPPTPGFKWVSCLSLPSSW DYRSLPPLPANFCIFSRDGVSLC SLSWSRTPDFK
7911	38279	C	7966	312	467	
7912	38280	A	7967	31	678	TGLYFLFLFCLRRSLA/SVAQPG VQWRDLGSLQPAPPGLRRFSFL SLQSSWEYRCPLPRPADFLYF*S RRGFSTLVRLVNSRPQ/CDPPA SASQSAGITGVSHCARLFFSFE MEFRSIVAQAGVQWRDLDSLQ PLPPGLT*FSCLSLPRLGAA/WD YRRVPPCPAIFC/IFFFSSRDRVS PCWSGWSQTPDPQVIRPPRSQ SAGITGVSHRARPSHIS
7913	38281	A	7968	23	99	YTMTGPGCWRL*TGPHPPHT WPGGSSSHPPQIPHRPPCVFG
7914	38282	A	7969	144	1239	ERTEPDH/TTTLT*P/ELPADTTA TVEDMLPSVTSVTTNSDTITETF ATAQYILTSETTTLTSSAPPAT ATPDSNSVPAGQATPSKGPSAS APSPAPASAPKVAPLVDLS DTP TSTPAASNLSSSVLANQGAVLS PSAPAGVGEASKAPPASKPTPA PVPTPTGAASPLAAAAAPATEA PQAKQEAPSTKGPDPPTQPGA AKSPAEAATALASPKSEAASVS TTNPSQGEDFKMDEGNFKTPDI DLAKDVFAALGSPAPAAGASG QAPELAPSTADSSVSPAKTE YGLSLSAVIGLCPPVSGWEDSG LPSIKWLLGLKVQEKGLNLSGK NTASGINLGLLEERTRSSDSVLL NYGCTLES LGCF
7915	38283	A	7970	3	375	ARQAMKSC LHQCFLTLPRQAL EASSCNSTGWGEGTGKSGLQ RGP*NQCWEPSPAQQAFTSS* AVATAAGQGEELPLLPSTTP GKNTASGINLWLEERTRSSDS VLLNYGCTL KSLACF

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7916	38284	A	7971	1	2230	MFEASVGWFMRLERTRLHDI QAQDEAVTADLEAAAGYPDLA KIIDEGGYTKQKIFSVDDTAFS WKKMTLRTFIAKEGTNTDGAS SATSSLVSLCLELCFLRAHHDV GFYCDLDVYQSAVYAPTCPTG YSLPQAKEESDFIPLEYEKGRIT STAGQGQDVEPEMEQLEKGSIK GVTETRTGPLGCSNYDNLDSVS SVLVQSPENKVQLLGLQVLLPE YLRERFVAAALSYITCSSEGEL VCKENDCWCKCSPTFPECNCPD ADIQAMEDSLLQIQDSWATHN RQFESEEFQALLKRLPDDRFL NSTAISQFWAMDTSLQHRYQQ LGSWL*KVLFKKKTHRILRRLFN LCKRCHRQPRFRLPKERSLSYW WNRIQSLLYCGESTFPGTFLEQS HSCTCPYDQSSCQGPIPCALGE GPACAHCAPDNSTRCGSCNPG YVLAQGLCRPEVAESLENFLGL ETDLQDLELKYLLQKQDSRIEV HSIFISNDMRLGSWFDPSWRKR MLLTLKSNKYKPGLVHVMLAL SLQICLTKNSTLAEPMMAIYVNP FGG\SHSES\WFMPV\NEGQFSL TWERTNVDAAA\Q\QCNWTM HLGGIRWKTFF\ETV\HVYLRSR IKSLDDSSNETIYYEPLDDWIP LRNLG\YMKINTL\QVFGYSLPF DPD\AIRDLILQLDYPYTQGSQD SALLQLIELRDRVNQLSPPGKV
7917	38285	B	7972	62	232	
7918	38286	A	7973	3	258	KLSPPPPLPPSPPLPRGPA\GPP SRLPSP/PASASPQGV*LGPA AELPGIRSR*PQVAPEAETHP WCCC*RSSPQQQRISH

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7919	38287	A	7974	1	1048	MAHSQNSLELPININATQITTAY GHRALPKLKEELQSEDLQTRQK ALMALCDLMHDPEDCIYKAMNI GCMENLKALLKDSNSMVRIKT TEVLHITASHSVGRYAFLEHDI VLALSFLNDPSPVCRGNLYKA YMQVLVQVPRGAQEIIISKGLISSL VWKLQVEVEEEEFQEFILDTLV LCLQEDATEALGSNVVLVLKQ KLLSANQNIRSKAARALLNVS SREGKKQVCHFDVIPILVHLLK DPVEHVKSNAAGALMFATVIT EGKYAALEAQAIGLLELLHSP MTIARLNATK\ALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7920	38288	A	7975	1	782	MAVTAAACWSLRPLARRDVCV GVALASPFVKPTHWFCKTLLEP CRPTGMGAQEIIISKGLISSLVW KLQVEVEEEEFQEFILDTLVLC QEDATEALGSNVVLVLKQKLL SANQNIRSKAARALLNVSISRE GKKQVC\HFDVIPNPWSHLLKD P\VEHVKV*RCRLPLMFATVIT EGKYAALEAQAIGLLELLHSP MTIARLNATKALTMLAEAPEG RKALQTHVPTFRAMEVETYEK PQVAEALQRAARIAISVIEFKP
7921	38289	A	7976	1	300	VEQTGRGE/RAYDIYSRLLRNA FLCVMGPIDDSVASLVIAQLLFL QSESNKKPIHMYINSPGGVTA GLAIYDTMQYILNPICLTLPRTVR MSPRWCRSL
7922	38290	A	7977	2	470	RPPQRTLQNGLALQRC LHATAT RALPLIPIVVEQTGRGEASYDIY SRLLRERIVCVMGPIDDSVASL VIAQLLFLQSESNKKPIHMYI/N QPSGGARGQATDIAIQAEIIMK LKKQLYNIYAKHTKQSLQVIES AMERDRYMSPMEAQEFGILDK

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7923	38291	A	7978	3	864	SCRYPALGPRLAAHFPAQRPPQ RRPPRTACSLQRCLHAITATRAL PLIPIVVEQTGRGERAYDIYSRL LRERIVCVMGPIDD\SVASLVI AQLLF\LSRISNMKPIHMYINIS PGVWVVTAGLGHLTDITAVTF LQPDFCTW/CSLGPGAASMGSL AFFAAGTPGMRHFAPQLPVFMI QPALQEGAGGQSPPDIAIQAE NP*KL\KKQL\YNI*RQRTTQTRS LQGDRVPPMAEGTA*HEAPME GPQEEG\MLKTRFLVPPSPQDGE\ DEAPRLVQKEP\VEAAPAAEPV
7924	38292	B	7979	1	2088	
7925	38293	A	7980	412	812	FQSLFTCVLFHFKFSLTIHHMNS QPF*RIRSTFFFLKQSL/DSVTQA GVQWRDLGSLQPPPPGFKQFSC LSLPSSWDYRRAPHPANFFYF F**QTG\FTHVGRMVPI*PRDPP ALASQSPGITGMSHCTRPRIR
7926	38294	A	7981	2	178	
7927	38295	C	7982	279	322	
7928	38296	A	7983	2	760	GVRRSGGGR\GRPGGGPRKARR GKAEDKE*MPVTKLGHLVKDM KIKYLEDV/YFSLPIKETIDFF LGSSLKEEGLKIMPVQKQTRAG QRTRFKAFVATGDYNGHVGLC VKCSKEVATAIRGSVILTKHSIV PVRRGY/WGNKMDK/PHTVPCK VTGRCSVLVHLIVSAPVPKKL LMMAGIDDCHTSARGCTAT/LG NFAKATFDTISKTSYLTLDLW KETIFTKSPYQFTDHLVKHTT RVSVQRTRAPAVATT
7929	38297	B	7984	318	406	
7930	38298	C	7985	333	439	
7931	38299	A	7986	2	171	
7932	38300	A	7987	1	668	MGGLFWRSA\RLRCGPRAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPVVAMVWEGYNVVRA SRAMIGHTDS\AEAAPG\TIKGV DFSVHISRNVIHASDS\VEGAQR RJQLWFQEQ*SWVSWA\D\GGQ HSSIHPA
7933	38301	A	7988	1	897	

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7934	38302	A	7989	1	142	MEYYAATKNDEVMSFV/GT/W MKLETIILSKLTQEQTCKHHMF SLISGS
7935	38303	A	7990	287	1086	EPWREMFISVYTLQKLGALFTI AKTWNQPKCPSMIDWIKKMW H/IYTM EYYAAIKKDEFMSFER TWMKLETIILSNLTQEQTCKHR MFSLISGSRTMRIHGHREGNITC QGLLGECVHTVATRGSPSATE DESCRMNVNDYGGNSPSTLQV KTSPQGRAEKGNNVRTWLYSN LVCWPSLGS LMGKLRDRVIKR VIYTHTAGDVSMHEEGFQFPLK QVSLLLCAIAFQPSLVVAAALV HITMEAYTYLEVTLQIHSP LFC FLPKCHF
7936	38304	A	7991	1550	1835	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKK\MW HIHTMEYYAAIKRNEFMSFAGT WMKLETIILSKLTQEQTCK\HH MFSLIRGS
7937	38305	A	7992	164	647	DLPVEPHIGKMILFEALVL/HCL DPVLTIAASLSFKDPFVIPLGKE KIADARRKELAKDTRSDHLTV VNAFEGWEEARRRGFRYEKDY CWEYFLSSNTLQIM/MKIIKAVI CAGLYPKVAKIRNLGKKKK\K VKVYTKTDGLVA VHPKSVNVE QTDFHYNWLI
7938	38306	A	7993	66	345	

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7939	38307	A	7994	1	2367	HRVTVISGETGCGKTTQVTQFI LDNYIERGKGSACRIVCTQPRRI SAHSSCGKSSCRKGQNLVASGN STGYQIRLPESVAQGNRVLSYT VPTRNHPSSGSQSDPYLSSVSHI VLDEIHERNLQSDVLMTVVKD LLNFRSDLKVILMSATLNAEF SEYFGNCPMIHIPGFTFPVVEYL LEDVIEKIRYVPEQKEHRCQFK RGFMQGHVNSQEKEEKEAIYK ERWPDYVRELRRRYSASTVDVI EMMEDDKVDNLIVLALIRYIVL EEEDGAILVFLPGWDNISTLHD LLMSQVMFKSDKFLIPLHSLM PTVNQTQVFKRTPPGVRKIVIA TNIAETSITDDVVYVIDGGKIK ETHFDTONNISTMSAEWVSKA NAKQRKGRAGRVRQPGSLLFICI NGS*EASLLGWTIQLPEIFEEP WEGTLFTK*RFLRLGEIAYFLSR *MDPPSNEPVLLSIRHLRSLNA LDKQEELTPLGS\HLARLPVEPH IGKMILFGALFCCLDPVLTAAS LKFFQ\SPFVIPLGKEKIADARRK ELAKDTRSDHLTVVNAFEGWE EARRRGFRYEKDFCWEYFLSS NTLQMLHNMKGQFAEHLGA GFVSSRNPKDPESNINSNEKII KAVICAGLYPKVAKIRLNLGKK RKMVKVYTKDGLVAVHPKS VNVEQTDHFYNWLIYHLKMR\ TSSIYLYDCTEVSP\YCLLFFGIG
7940	38308	A	7995	25	312	WLIYVITDARMYRQRGRYYFL VSSSLDKVLMISFLLGWRRSSR RLRAFLVLHLRASPWAPRSFVR PVSAFSVGMCHMKTRVFENTF PFTLGHTVRYVGREIF/CRRVFT RYRESIKISLPTYLTVCPRVKGN VFSNTRVFMWHIPTLKADTGRT KLLGAQGEARRCKTKKARKRR EERLQPNKKEIKTLSKEEETKK
7941	38309	A	7996	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDHHMYHSL YLVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
7942	38310	A	7997	3	124	KKRPELRDLLNQARKETL/ARK EDRSASSGAEGDVSSEREP

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7943	38311	A	7998	911	1497	SQRKARDQRRKRNRKRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLDP/NETNEIPN ANFRQQIRKLIKDGLILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMVHSLYLKLGKN VFKHKRILTEHSHKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIKTLSQEEKAK
7944	38312	A	7999	34	279	EVIHAAIGEEKGSY/NA**PWVE EQLTRQPLIHHQPASLHVSRY/RC RYHSLYLKVKGNVFNKRILM EHIHKLKADKARKKLLA
7945	38313	C	8000	351	530	
7946	38314	A	8001	356	921	WRATACTYPSWAPPRIIVATGP AAVSAGLPSLHGTRAGPQAPCT AAVPPAPLPHPRPAS*/G/MPAGP VQKGAPT/AAAAG*/RLKHGQS RRQGRGGAERTEGCQHAVTFQ DCFLRCFFG*/C*/CLSG/ERAIALE QGASHAAEQLPRLQAFKRPGPL /QVNPDAPOKSAASSSLKVLGS LPKHQRPFRFCQNTGS*/SGP**T TGRRSAAGAA/GKPENPGSPPA PHNFKSGTNPVATTHHPVGSKP RPEPHGNSEA
7947	38315	A	8002	495	653	MTLTSIDPVLTTFFNLECP/VFT ATASSGLGEVE*/AIALN
7948	38316	A	8003	1	1433	MPESNCSLTWRHSVGRVAAQ GGEHSSQGASLVLGEPRGGSS WLLGLEGDTGLWGGLLKEGRL TDGKGKTIDCKDAIFIMTSNVA SDEIAQHALQLRQEALEMSRNR IAENLGDVQISDKITISKNFKEN VIRPILKVRGLSWHFLLEPKAHF RRDEFLGRVIGEIVYFLPFCHSEL IQLVNKELNFWAKRAKQRHNI TLLWDREVADVLVDG\YNVH YGARSVIKHEVER\RVVNQLAA AL*/SRTLLPAGGCTLRITVEDSD KQLLKSPPELSPQAEKRLPKLR LEIIDKDSKTRRLDIRAPLHPEK GRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEM SRNRIAENLGDVQISDKITISKN FKENVIRPILKVRGLSWHFLLEP KVLTTFFNLSVLYLHGNSIQRL GEVNKLAVLPRLRSLTLHGPN MEEKGYRRARGHSLHQGIEK YICESDDIFRKYCENNQFL
7949	38317	A	8004	1	789	

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7950	38318	A	8005	1	409	LRLELSFCSSCLLEPPWS/TTVV CLYCRPATDFHPSGSGRVSAVL LIQ*G/RPLPLLIRLKACHCSHTA KCPGSSPSSMSPTAEEQKSGTA EERREGASEHGEEFGWGLERS AVEWPNSRGRSSSHSIPFPAPRP
7951	38319	A	8006	1	1787	MSKGESRKCNEENVSKSSKV KVFI VLT PQFLSRDKDQLTKEL QKHVKS VTVSCKSPRKLLSHIT RLHPPSKGQGENLTHLVDSIKA TIWCQPVWETVEGQRRRVGNC IDFTNGCDLVGSSSLHNMLVCS SYDINRQDTFQKDRTSEKHLDD SVFTALQDSAGQQWPARLHPQ RGEEVADPRGAPSRHVEPENSS PCQNGEQAGKAGARALCGQ ARRSPATMPPPLTTRSLCEFAVF LLHWLFPELFHYRKLGEQDSCY GDGGKQELDPQLQIICNFTEV YFPHMQEEEA WRQAGPGPAEA AD/TSATSRRTSPTCRRRRPGC SGAPSASTTSFRAWGWTQAAK ASPPRDNCYNSSSLPDDISLFTH DNLHKQHSCSDSLGKKQLDPS CIKLIRH*VHLLYLCTKNNRVW TLEFMGNLHWNRRNRGAPTSSS ARSTCWPRV*RHEELCNQS*EV QRGV*GSPAAPERSSKDFCKIPL DEVVVP H*/DFPVRSPYLLSDKE VCKIVQQSLSVGNFAAGLL/LPP RTSSCSTTIFGL/DNKKQLDPTQ LRLICH*VEAVYPVEKVEEVWH CECIPSNDEQCHCPNRKKCNIL

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7952	38320	A	8007	1	1475	MAVDFSLAVLMIVSSYDINRQD TFQKDRITSEKHLLDSVFTALQD SAGQQWPAPRLHPQRGEEVADP RGAPSRHVEPENSSPCQGNGEQ AGKAGARALCGQARRSPATMP PPLTTRSLCEFAVFLHHLFPEL FHYRKLGEQDSCYGDGGKQEL DPQRLQIICNFTEVYFPHMQEEE AWRQAGPGPAEAAAD/TSATSRR STSPTCRRRRPGLQRCAQCIND KLQGLGLDAGSEGEPPTRQLLQ LLQPAR*HLSNQGQGG*LGQRAL FTHDNLHKQHSCSDSLGKKQL DPSCIILIRH*VHLLYLCTKNNR VWTLEFMGNLHWNRRNRGAPT SSSARSTCWPRV*RHEELCNQS *EVQRGV*GSPAAPERSSKDFC KIPLDEVVVP*/DFPVRSPYLL SDKEVCKIVQQSLSVGNFAAGL L/LPPTSSCSTTIFGL/DNKKQL DPTQLRLICH*VEAVYPVEKVE EVWHCECIPSNDQCHCPNRKK CNILKKAKKVEK
7953	38321	A	8008	1	3524	MCNNLIHLSLANNKITTINGLN KLPIKILCLSNNQIEMITGLEDL KALQNLDLSHNQISSLOGLENH DLLEVINLEDNKIAELREIEYIK NLPILRVNLLENPIQEKSEYWF FVIFMLRLRLTELQKKIKVEEK VSAVNKYDPPPEVVAAQDHLT HVVNSVMQPQRIFDRYLLEIQR PEFRLVLKLVGNESLPIASADSL ALTSDMVRNGLGDLFYDFRAC HTTRPPYFGEGRVDYHFISQD VFDEMVMNGKF
7954	38322	A	8009	258	719	MTPPSVLP*PSLSY*HPDYSLPF PFSPVLCFPHPVQGLYSVLFVN TAAEPREKSAMAILPLSGHACS HVCLGSHQSLFQRACGRCPRL SGSLRSHCHWLLILGVKKCSPP EAGKAILLTDRITETMNISWKP RNPSHTVPHPHICCHWRI
7955	38323	B	8010	1	1953	
7956	38324	A	8011	32	533	GRERPLLSPYMETLYRVPFLVL ECPNLKLLKPPWLHMPSTMTV YALVVVSFLITGGIYDVIVEP PSVGSMTDEHGHQRPVAFGLL QSKMDNNINGKGLCIQAS*FTM GGFRFS*ILDPIECTKYPKTSIDS FFCSIGISSVVLEFFPWARSNS MRNGNCPGLI

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7957	38325	A	8012	670	1052	TRRDSRCKGTWLLSVKTLAISA VKSQKSKASECRFTNRSSSTAVI RVLLPGILLSSKLRCSMVLATA LERDDSDVGVTISSINPQDSHFS CLLLRISNSC*IC/CNFFAIRV HLAEVCI*QTSLLL
7958	38326	C	8013	40	186	
7959	38327	A	8014	1	1216	
7960	38328	B	8015	1	1032	
7961	38329	B	8016	1	1761	
7962	38330	A	8017	108	708	LTNQKKSRTTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFSYQS AEDIRRKLLQQAEEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCAYPEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
7963	38331	A	8018	1	512	LSRSSPLLPLVWHQAMVGSM VEPAAWVLMTCWDTPRQSGV PRERMPHTGTWRTVGIRCPKK KLRSANSSMMRGKVQPPFR/DI QAYGAAPFEDLQVDFREMPKC GGNKYVLVLGRITYSGWVEAYP TRTEKTREVTPLLRDLIRRFPR PLWIGSDNGPAFLAALVQKTA
7964	38332	A	8019	3	764	KQVLVNGDAVSREEKRKENER QARRNADLLVSCSNQSGPPKEA REELWTKDYRPGQDLRLLSQA TLTFHPTVPSPTLLGLLPAEDS WFTCLDLKDAFFPIRSAPESQK LFAFQWEDPESALAKTVRQRC VSCRQHHA\GKVQPPFR/DIQAY GAAAFEDLQVDFTEMPECCGN KYLPLVGRITYSGWVETYPTRA EKAREVTRVLLRDLIPRELPR IGSDNGPAFVADLLQKTATVLG ITRKLHAASRPQSSGK

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7965	38333	A	8020	19	1548	CIYGAQLCTGPSAPVWYCPLGT MAPTGLPGHPAVATATEPHRE RGSPL/IDSTVLVPPQDKHILRPP TVDKRGGEASGETPPLAARLRH KTGIQMPLREQQYTGIDEYGHV VERRVFGYQPFTSAHLLNWKS NTPSYTEKPQALIDLLQTHIQT NPTRADCHQLLMFLFNTDERR RVLQAATKWLEEHAPTDYKNP QEDVRTQLLGTYPQWDPNERQ DMQRLNRYREALLEGLKRGAG KATNINKVSEVIQRKEESPAQF YERLCEAYRMYTPFDPNPENQ CMINMALVIQSTEDIRRLKQKQ AGFARMNTSQLLEIANQVFN RDAVSRKENQKENGGWPPCLR ALAATALLVQEANKLTLGQNL NIKASRAVVTLMNTKGHHWLT DARLTKYQTLLENPRITTEVC NTLHPATLLPVSESPVEPDCVE VLDSVDSSRPDLRDQAWASVD WELYVDGSSFFNPQGERGAGY AVVTLDTVVEARSLPQATSAQ KAEVAFIRALELSE
7966	38334	A	8021	1	895	MDGAGICYLHQTNAGTEIQT VLTYSKRELNENMWAHRGDN THWGPEGSTNSPASASGVADV SRVGLQWVLGLADFKNEAKE LRLYKQEKREKAKRWKETEK FNGDYGVTMTPGKWRTYFEID WSKLEVGPSEGNLERSLVSK VWHKVTGKSGHSDQFPYIATW LQLVLDPPQWLRGQAAAVLVA KGQIPRKDPTPPGRGKSTPEVL FDPTSEDPLQEME/PSDPSGALP LPGKDAPHSAHSPCASTRQTY P*ATRSRQERR*SLERNPYIGSS FKTQNWDTNAPERAVVYWDR

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7967	38335	A	8022	1	1959	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPWSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTHIQTHTNPTWADCHQLLMFLF NTDERRRVLQAATKWLGEHAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDSPENQRM NMAVSQSAEDIRRLQKQAG FAGMNTSQLLEIANQVFVNRD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAAFFSIRLAPERQK LFAFQWEDPESGVTTQYTW LPQGFKNSPTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSXXXAQICQQQVRYLGFTI RQAERTLGSGRKQVICNLPEPK TRRQVREFLGAAGFCRLWIPNF AVLAKPLYEVTK*GDREPF EW
7968	38336	A	8023	2	367	
7969	38337	A	8024	3	687	GRRQRRSKVTSTWWQARESS CRGTLLYKTIRSCDTYSLSQEQ HGPNLHLIGVPESDGQNGTKL ENTLQDIIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKGRVT HKGKPIRLPADLLVETLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKYFTDKQMLRDFVTT RPALQELLKEALNMERNNWWYQ PLQNHAKL
7970	38338	A	8025	1	993	

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7971	38339	A	8026	1	842	MAEQEQLQSAVPSPLLVIPRQK GSGVDFQQSPDLDLRLDTRR KTNKQKGIASLTTRTSTPKPH LYVTNIKDQRPNRLIGVPESD GEKGTKLENTLQDIIQENFPNL ARQANIQIREIQRTPQRYSSRA TPRHLIVRFTKVEMKIEKILRA A\REKGR\VTHKGKPIRLTTADL SAETSTSQKTEWGPIFNILKEK NF\QPRIS\YPAK\LSFFISEGEIK\ YFTDKQMLRDFCHHQTCPL*KS TRPALKELLERKHLNM/EKGNN WYQPLQ\NHAQICKDH
7972	38340	C	8027	320	433	
7973	38341	A	8028	9	189	
7974	38342	A	8029	26	738	VAASSFDTCADHLCALHLLQV LHYLAIQKPADLARHLLPCVIH AAVLKVKEESLENISSVKKIK QIISHSSKVLHFPNPEDKKLEEI HQITNVEALIARARSLKAKFGT EKCEQEEEEKEDLERFVSCLEQ PEVLVTGAGRGHAGRIHKLFFV NAQNVA\AMTPP\EEELKRMGS PEER\RQNSVSDFP\PPAGREFIL RTTVPRPAPYSKALPQRMYSVL TKEDFRLAVKIIDGDV
7975	38343	A	8030	3	2961	MAADSEPESEVFEITDFTTASE WERFISKVEEVLNDWKLIGNSL GKPLEKGIFTSGTWEEKSDEISF ADFKFSVTHHYLVQESTDKEG KDELLEDVVPQSMQDLLGMNN DFPPRAHCLVRWYGLREFVVA PAAHSDAVLSESKCNLLSSVSI ALGNTGCQVPLFVQIHHKWRR MYVGECQGPVVRTDFEMVHLR KVPNQYTHLSGLLDIFKSKIGCP LTPLPPVSIARFTYVLQDWQQ YFWPQQPPDIDALV

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7976	38344	A	8031	1	1688	MREKPCQSNECGKAFNYSSLLR RHHITHSREREYKCDVCGKIFN QKQYIVYHHRCHTGEKTYKCN ECGKTFTQMSSLVCHRLHTGE KPYKCNECGKTFSEKSSLRCHR RLHTGEKPYKCNECGKTFGRN SALVIHKAIHTGEKPYKCNECG KTFSQKSSLQCHHILHTGEKPY KCEECDNVYIRRSHLERHRKIH TGESYKCKVCDKVFRSDSYL AEHQRVHTGEKPYKCNKCGRS FSRKSSLQYHHTLHTGEKPYTC NECGKVFSRRENLARHHRLHA GEKPYKCEECDKVFSRRSHLER HRIHTGEKPYKCKVCDKAFRS DSCLANHTESSILGEKPYKCYK CCGGFLIQKGS LPQHQRVHTGE KPYECNECGKVFNQASLAKH QRVHTAKKPYKCND CGKPLPD QSTLFHHQSNPIGVGKRYQ/CN DCHKVFSNATTIANHYRIHIEE/ KIYKCNKCGKFFRRHS*LVVHQ *THTGEKPYKYHDCDKVFSQA SSYAKHRIHTGEKPHKCDDCG KFTSCSHLIRHQRIHTGQMPY KCKGGKVFTLWSFHAHQKIH
7977	38345	A	8032	25	1091	IHIYSDSCSLSLQDSGDEKEFNL DDNVSFRA SLWDLAAGPGQGG GGGREKWRAVISRTMNRKMG KMMVKALSEEMVRPADIGDGV SRGPGDRSGRM*AEKMAFAFS EQEEHELPVLSRQASTGE*GMR GTPAESGGKD WVTAVLVAGPF CGRARVHTDFTSPYDHD SLKL QVRSASGLLWSLAGCAQKGSW TEPVGSFKFIYVDVLPEEAVGH ARPSRRQSKGKRPKPTLHELL ERIGLEV*AWSSLVSSIREAQLP QGWGPGHLNELNIMDPQHRAK LLTAAELLLDYDSEWL*ERPGE GAESSQEPGGEACPKVDIPRDS GCFEGSESGRDDAELAGTEEQL QGLSLAGAP
7978	38346	A	8033	35	437	
7979	38347	A	8034	1	1845	
7980	38348	A	8035	1	212	
7981	38349	A	8036	371	915	
7982	38350	A	8037	1	2460	
7983	38351	B	8038	10	1510	

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7984	38352	A	8039	1	188	SASTTLWGLLIHLIHLGTALRA VSSWGTHLTAKEVQWGH/DCG THWSYHHLHQPRAAGHKEC
7985	38353	A	8040	3	2332	FFFMWDPQH/TFI/VLPQGYYN SPGLYSTVLRDLENLDIL*NIK LYFIDNIMLTGMDE*EEDGTLE ALVKHLLSRGVKINKPYRDSEV ATAVK/FLQV*WLGASRGVPS NVKDKLLHLCNPKGREAHCL G*ALF*VS*HHIPTCKVVSFGDP HF*VT*EECPAFESL/QQERTL QQIPGHGAVTILQDPLVLKVPV GGVRFVGLNQPVGESQWKG LGIWSKAMSSTAQKYAP/FQSR EICWKQLLACY/W*ALI/EIECLT MGHKTTM*FQMPLRN*HLCNS *SHTLDMPQQHPIMRWKSFL*/ D*A*IPMLTSPRKHPNLKWP*TT KQKH/WKL/GQSPWVSPGRVG WVHKWSKHSGRD/GGYLWVQ QY*LPPTKVDPDTATSKCPTHQ HLNPMIFP/R*GSISLGDQDPK* GVDYIALFPS*KGQRFMTGIGT YSIVGFSCRVVIPSVSTTFWGLL IFVIHLGTASPCS\SSWGTHLT AKEVQWGH/DCGTHWSYHHL HQPRAAGP*RMLKRASIGTAQR QLAGST/LCGWEGAIFQDMVHF KNQRHLYSSVISVGRTRGSRYQ GVEVDVAPYPISTHLSWDFAL LSQNHHSAG*KVLDSKGGYP*K ETNECPLNYTLQLP/PGE/FGQY VSRDQVRRGVPSSPGTVIDPD PQEEAWLLSHN/GG*EEFVWNP /GDPLGGLLV/LPCPIVSVRRIVQ
7986	38354	A	8041	1	1296	

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7987	38355	A	8042	498	2219	KSVKTST*DTLRTKAKTGQGHITGLQPWLGLRIRQEP/SAKTEK KAAIQAKAGAEREATGVVRPV AKTRAKAKAKTGSKTDAVAE MKAVSKNKVVAETKEGALSEP KTLGKAMGDFTPKAGNESTSTCKNEAGTDAWFWAGEEATINS WFWNGEEAGNSFSTKNDKPEI GAQVCAEELEPAAGADCKPRS GAEENNVIGNWFWEGDDT SFDPNPKPVSRIVKQPVEINE KNRPKDWSEVTIWPNAVA/TP AVLGFERSQAPSEASP/LFIYCSG LR*RKCLFFACGNSLPPF*EPRS CSQPIPECRFSDPCIQTIDEIRR QIRIREVNGIKPFACPCCKMECY MDSEEFELVSLKSTTDPLIHK IARIAMGVHNVHPFAQEFINEV GVVTLIESLLSFSPEMRKKTVI TLNPPSGDERQRKIELHVKHMC KETMSFPLNSPGQQSGLKILGQ LTTDFVHHYIVANYFSELFHLL SSGNCKTRNLVLKLLNMSNP TAARDMINMKALAAKLIFNQ KEAKANLVSGVAIFINIKHIRK GSIVVVDHLSYNTLMAIFREVK
7988	38356	A	8043	1	453	MEKLDELKIKIDNINGALICARHFSKCSSNAQSHLCPYLQAFPGG PG/VRGLPGWPGRTGSRELGHG WRGCG/EGLVSGCQTMLSGA/P AGSPQ\PTGGTRAHA VRGR*V PARSQGSRLARPGQED*GAAP\DFDPGAAGVPGVPALQEAAQI
7989	38357	A	8044	3	690	SLSLPSSWDYRRAPPRPANFVF LVETGFTMLTTIVLIS*PHHPA SASQNAGIV/GVSHSPRPGIACLI TRLDF/HQGTQSRVPALGSS*PIP HARPRGHTLKALPYRLYTQTA RGFGQPRVRIPLLSLLGSLKPSE LRQVGHAFASAIASISLCVF TLLVEGKLKPPGASVRRCLQSN RDLGFRATFPTSHRGHGALGLN YISQRATGTPNLWLPFRFRVVL LQAACG
7990	38358	A	8045	106	299	
7991	38359	A	8046	306	445	
7992	38360	C	8047	570	926	

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7993	38361	A	8048	47	988	ASRPGSRVSLMFGAAGRQPD SSSPGTSWPFVPEPMEELVHDL VSALERELQSKPRGGFAEPGDP FSEVY/PCPLKRPARKRRGRKR RFV*CASPVGGLVTA*SEGSDS SFRRTKSKKRKLKIIHQGPQIQD EGVVLESEETNQTNDKMECE EQKVSDELMSESDSSLSSTDA GLFTNDEGRQGDDEQSDWFYE KESGGACGITGVVPWWEKEDP TELDKNVPDPVFESILTGSFPLM SHPSRRGFPTKTQSAFMECLQRI LKNLEGLQLQWYPFLAQWVTR EWFIFPRILITMTIGLALGLGQS MTSISF
7994	38362	A	8049	3	476	LTRPVD*RPGTIHLGRGVRARP ANRRRQRARRGAAISPPGPCSV AGFLRGRLG/PEPGDNGQHLGE PWLGCGLFA*RA*CSRSTRCT* RRRAPGDRELPRPATWAPPIK LVPRVFSSKVGQGVSGLVEAM CLGQDSILNQSNKHNVSASSNT ITVIG
7995	38363	A	8050	2	143	
7996	38364	A	8051	1	161	
7997	38365	A	8052	3	1189	ESPLLGHSSSDAARRRSVSSFP VPQDNVDAHPSGSGKEVRVPAT ALCVFDAHDGEVNAVQFSPGS RLLATGGMDRRVKLWEVFGEK CEFKGSLSGSNAGITSIEFDSAG SYLLAASNDFASRIWTVDDYRL RHTLTGHSGKVLSAKFLDNA RIVSGSHDRTLKLWDLRSKVC KTVFAGSSCNDIVCTEQCVMSG HFDKIRFWDIRSESIVREMELL GKITALDLNPERTELLSCSRDDL LKVIDLRTNAIKQTFAPGFKC GSDWTRVVFSPDGSYVAAGSC *RALLYIWDLVTGKVEKVLSK A\HSSSHQCGWPWSPSWARTF VSVDKGCKAVLWGTVLTLGLSG LGGPQCPPEEAHGLLPWSW QVNVLGYSMDLPEKLANVGH

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7998	38366	A	8053	116	921	LSKSNRCW*GCEEKGTLIHCW WEC/KFNPLLKAI*RFLKELKVE LPLDPAIPSLGLSKIGTGKKVW QRLPNCPTISLFSFFHKNRHTGT YRRRFLDSLAVRCPCNPATFGS KSDVCNFWVMPSTGKKCALPS HPLFPNGLNADVCLSDSENLS QKILLILEVSDSVILGKLSHKNI QHDCIEEPLTLLRNTQQFRFLCI ACHGCTSQYSTFLVKASWTRS QGLIQRQPSAGSGYPEKLFSEG AGDEGVDLLPLLAKPASPDEQL
7999	38367	A	8054	35	422	SCSEVTEASWGSVPELRDAQLG VGLHSPTYRHPHRETLTCCPAG TLQAWPFCGRIRVRVPVSWLGE PGRGLIPGSGSAASSECLPGLHG RAPLGTSCRPGRPLP/WNQPPPR LAQPGHRDPDADAATERPGLQ RPSRTACERFPMGVSVRRRVEA HSQLGVPELRD
8000	38368	A	8055	3	277	GPPRPPA*RGHGGRPENTVPAPP RWPPPPPRSPAPLPPRRACADV THPPVPTPGKRTPPPIGGAPAAR AAPRRPAPSCFSAPTGC SLTTG
8001	38369	A	8056	3	179	PPPHPQGPPPPGRPPGC*RPI/QG RQVFSMKPGRTPERTAWS/PPY PGCLGSRPRRPSAPA*SGAHCV VAPYPGCLGSRPRRPSAPA
8002	38370	A	8057	3246	4682	ENTLSFASFFFFFEMLSLCRPGW SAAAPCQLTAASTYWVKRFSC LRLPSSWDYRRAPQHPANSFCI FSRDRA/TMLVRLVSNS*PQVI RLPQPPKVLGL*ACCGFCSGSS GMAPGCGRVVSHAGAPGGGTR PP
8003	38371	A	8058	3	718	LTRLVLSPDAPD/RATHLIAA/R AGTEKVLQ/AQE/CGHFHVNP DWLWSCLEWWDKIEEQLFPLR DDHTKAQRENSPTPLPDREGIPP TALSHMPILPKAQPSPEVRIYD SNTGKLIRTGARGPPAPSSSLPI RQEPSSF/RVDDILGEGSDDSDS EKRRPEEQEEEPQPRKPGTRRA RTLGA PASSERSAAG/SRG/PRG HKRKLNEEDAASESSRESGNEY EGSSSEADEMAKALEAELNDL
8004	38372	A	8059	273	468	NVKGTAANGD*G*RGEAAPA/G RSRARVPEDAASESSRESSNED EGSSSEADEMAKALEAELNDL M

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8005	38373	A	8060	1	2886	MEVPAAGRVP AEGAPTA A VAE VRCPGPAPLRLLLEWRVAAGAA VRIGSVLAVFEAAAASAQSAGAS QSRVASGGCVRPARPERRLRSE RAGVVRELCAQPGQVVAPGAV LVRLEGCSHPVVMKGLCAECG QDLTQLQSKNGKQQVPLSTAT VSMVHSVPELMVSSEQAELG REDQQR LHRNRKL VLMVDLDQ TLIHTTEQHCQQMSNKGIFHFQ LGRGEPMLHTRLRPHCKDFLEK IAKLYELHVFTFGSRLYAHT
8006	38374	A	8061	2	680	
8007	38375	A	8062	658	1657	PGILSLRNALLTGVDCKVVVPV PPGHTHPQLRRLFHFHPKTC SGW GEWGDHGVVWAGPAPA\YHL HRDVQALWTNDHALAWP*AM TSERTLWPGHEL SARPGRSWRI SCPTGLAPQGGDDRTGRHWVTA TCCSADGLRLCRYGDIGVRGGL PTVAWP*LTGSCSLRYGSGQQC CYTADGTQLLTADSSGGSTPDR GHDWGAPPFRTPPRVPSMSHW LYDVLSFYCYCCLWAAPDPGKD RAGLGCTPT*PSTLTLASAFGDP HFVTFDGTNFTFN GRGEYVGM G*NQGGRLPSGSR SAPTTAGT ETRGTGLTAVAVQEGNSDVVE VRLANRTGPER
8008	38376	A	8063	873	1791	RCAGCPHSSSF FERQ*AAVGP CCHGGTYRKASSV*RVSV*HPP HDRGSRK/QSLSGR*STGLS*MP SGVASSASV*FVNVFSLSSSN*L AQSTARFP PGSVRGLGQGRAG GG*APGHGADHPTGRQHS*GSP APVTWLWWPPRHQAALAPAP STTPYDNSPLHCRPSGPSQSSH HSALPGT/SVPGSSPLEIVPGSSL YVS*SLIRALAAPISSSSVGKNC RCTERLAIKPAAESCRTRSSSAG QSVFSRFTSL*AFTG*AR*PSAS AADLLVKASILLAQLLILESLAS STRMYSFRDCTSSFSA

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8009	38377	A	8064	2	935	YSPARGSGRGDLSSRRPGAGRRA GQGPQVGAPKPGGA EYVRWA AGGMKGAGGSSGSGSGSGSRE AG*PGVPRGRRGWRTPAEPPG WGPGRQACGA*/EGRAAAQ VGGAPAAAGGGVAREEAPS*P GDAAGGSGTPGAASVQVSAPP AQPQINLSAGARAGVARRCVCP RGAE*GPGDPGPGSRR*PPAA QSGPPPCPSALFLHPGFLCRRP QPSRAQGGEVSGALRAVPRLSG GAGNLAALPCQLPGSGGLTPGC /QASQGLGVLGLVRAGPAWSPL DGPLDQKVFSPTSLWNQRCFS LAAAGPVIIR
8010	38378	A	8065	3	367	
8011	38379	A	8066	2	1246	TPAWSREILAEELCTPPDPGAAF VVVECPDESFIQPICENATFQRY QGKADAPVALVHMAPASVL VDSRYQQWMERFGPDTQHLVL NENCASVHNLRSKIQTLNLI HPDIFP/AAHQFPL*EGGPHQC AHGSG*MPPQVPAPFQE/WSAR GMPLLLAILRNS*LRRCSFPTSS RALQEYRRSAQDGPAPEKRS QYPEIIFLTGSAIPMKIR\NVA TLVK\QSPDTSLLDCGEGTFGQ LCRHYGDQVDRVLGTAAVAVFV SHLHADHHTGLPSILLQRERAL ASLGKPLHPLLVPAPNQLKAW LQQYHNQCQEVLLHHISMIPAKL PSGRWLRSPVLQWKD*FSSLLR TWIWEFQTCLVRHCKHAFGC ALVHTSGLKVVVSGDTMPCEA LVRMGKDATRQADELISFQG
8012	38380	A	8067	121	880	GAAASQLPAVPQVPVGGPAPH QYDSCQMPSGRG*DLQSCSGKI DQFA/AWTTCDLEEFQTCLVRH CKHAFGCALVHTSGWKVVYSG DTMPCE\LLVRMGKDATLLIHE ATL\EDGFRKREA\LEKTHSTTS QGHS AWGMRMNAEFHY/VLN HFQARRYSKVPLFSPNFSEKVG VAFDHMKVCFGDFPTMPKLIPP LKALFAGDIEEMEERREKREL AGAGRPSCSRGAGRRPLEDGEP QQKRAHTEEPQAKKVRAQ

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8013	38381	A	8068	1	607	SPGSWETRLVWWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLAKRPKRLAQMH WGH
8014	38382	A	8069	1	290	QFLDAESGSAGEPPR/LAVPAPF PGGAPGNYGRTRGREERSWP PPLAPSLFALSDFGSSPGRTSRR PLAVSRRLGPTFPPLPPAPGR GRPRAAP
8015	38383	A	8070	1	565	SPGSWETRLVWWSFYRSCCKHS LCPCLVGEFLVFNSPMQSGSAG EPPRLQF/GAPLPGAAPGNYRRT GRGREGPWPPPLAPSLFAFSDL GSSPGRTSWRPPAVSRRLGPTFP PPAPGRGRPRRAA*TGPSAQ/PP RSLSTLSPAPAAPAVRTAPPVAS PRAAPAPLRAITLLATKSEELPV VSFFSSRLVLA
8016	38384	B	8071	475	913	
8017	38385	A	8072	145	275	
8018	38386	A	8073	1	310	VEELTARTGGGAPPGCQADAK RMPQFPQRTPWGHGFAGAPFP ISKPHGPPAGQL*PG/PSCEQT/E PPSPVNVTVTHLRANSATVSW DVPEGNIVIGYSISQV
8019	38387	A	8074	1	483	GSHRVGRWAALCDRAAPRGLT NRETGGGAPPGCQADAKRMPQ FPSQRTPRGHGFAGAPFPISKPH GPPAGQL*PG/PSCEQT/EPPSPV NVTVTHLRANSATVSWDVPEG NIVIGYSISQQRQNGPGQRVIRE VNTTTRACALWGLAEDSDYTV QVRSIGLRL

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8020	38388	A	8075	2	854	RPPAARARRWLKPSPARRSRR PAHRCSRRRTCTPQATRPGMR *APAAACGPTGRRS/RLPALKL ALEYIVPCMNKHGICVVDDFLG KETGQQIGDEVRLHDTGKFT DGQLVSQKSDSSKDIRGDKITW IEGKEPGCETIGLLMSSMDDLIR HCNGKLGSYKINGRTKAMVAC YPGNGTGYVRHVDNPNGDGRC VTCIYYLNKDWDKAVSGGILRI FPEGKAQFADIEPKFDRLLFFW SDRRNPHEVQPAYATRYAITV WYFDADERARAKVKY/RNR*K RCEG
8021	38389	B	8076	1	205	
8022	38390	B	8077	1	806	
8023	38391	A	8078	1	2279	MKVGLDQIIEVVP SHSVTSGAA AGECGGVHCD SVCAEGRWGPN CSLPCYCKNGASCSPDDGICEC APGFRGTTTCQRICSPGFYGHRC SQTCPQCVHSSGPCHHITGLCD CLPGFTGALCNEA YSQ/SCPSGR FGKNCAGICTCTNNGTCNPIDR SCQCYPGWIGSDCSQPHCADKC VHGRCIAPNTCQCEPGWGGTN CSSVKKQSTVCES*KCEPWEER PCGGLHWDIAG*/P/GKHGGYL NELGAFGLDRSYM GKSLKDLG KNSEYNSSNCSLSSSEN PYATIK /GPTCTYPEKLRVWLCGDEIAG TKRFPICRDQ*LNFSQQECL*S* TYSECCPRSIQQ*WASFP GSI*PP KNSHIPCHYDLLPVRDSSSSSLK QEDSGGSSSNSSSSSE*/APKDR LGLLV**RS*SM*TNRLAKHPK QPRKGPKI**HGTWKSSQEK/ HAEEQSGKLAATLCGKDWLIQ REGWPYILSRMFL/CFISTDGRE SESLWRKSNGNSKFKF*WGRPG KCGL*EGQREEVWGLGNSLYC LAGQL*CLDCECHH/GFQECCP VLGHSWGYKS/CLNRNPLKGLS SRCAGLAVRDSLAPNSQGWKA TFDFPSLECPSTYGYGCRQICD CLNNSTCDHITGTCTCYSPGWKG ARCDQA/GCYHSWKSEQLKPN QYCSPC*FLPDRGHCRHHHSCP SCSLPTGIVHYL* TQAEGKGIKH
8024	38392	B	8079	1	2909	

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8025	38393	A	8080	332	602	NSLNSRWLKGLPAGPGIQEIKE MWRCMSSICQKEGWRMTAGS LGHHRSLLHVGQ/AGNDVDRT GSLPASVR/QHAYYTASSVEGR VSYKLYT
8026	38394	A	8081	2	422	FNISLGFACPLRIDFFGWFFVFF LSWSFTLFAQAGVLWCDLGSL QPPPLGFKKFSCLSLPSSLDYRC LPPRLTNF*FLVEMGFHHVGQ AGLELLTSGDPPASASQSAGITG MSHRAQSAALSFK*SGISKNRY FIFWA
8027	38395	A	8082	1	951	
8028	38396	A	8083	1	924	
8029	38397	C	8084	271	738	
8030	38398	A	8085	1	575	
8031	38399	A	8086	2	332	
8032	38400	A	8087	1	897	
8033	38401	C	8088	181	804	
8034	38402	A	8089	1	1923	
8035	38403	A	8090	294	2340	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVKIDS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPII GVQKPNGQWKLVDLRIINEAI VPLYPVNPYTLSSQIPPEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYLDLDDLLAAHLETLC QATQKKTGIALGVLTQVQGTFS QPV AHL SKEIDVVAKGWPHCL WVVA AVLVSEAVKIIQGRE LTVW TSHDVSGTLTAKGDLWL SDNLLLNQALLFKRPVLR LHTC ATLNPATFLPNNKEKIEHNNHQ VIVQTYTIQGD LLEVPLTDPDL NLYTNGSSFVEKGLRKAGIHPS RQWTP LWP KAGPEMLSKRQVL ESGILKAFLVPYLLVAVLGSIDF NGKPPVAVFSL SQAHRFLCAT WLL LGYGEVWIHSHTAIKTYQ RRRSQDGRIGTAPVYSSQRERR RRRVISAFPSEGIPTDLQLRVLS VRRKTNKQKGHPHQKPICTSPS SRPKVDKTTKMGKKQNRKTGN SKTQSASPPPKERSSSPATEQSW MENDFDELREEGFRRSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSQCDQLEERVSAMED

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8036	38404	A	8091	158	865	NPAARTPFFVIKKGGRGEGCL AKAGAIHLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQRQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNPTLGVQKPSGQWRLV QDLRIINEVTPLYLAVPNPYIL LSQIPEEAEWFTDLDLKDAFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWYVD
8037	38405	A	8092	1	748	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNP HLFGQALAQDLSQFSYLDLTLVL RYMDDLALLAAYSETLCHQATE ALLNFLATCGYKVSKPKAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
8038	38406	A	8093	194	1377	NPAAQT PFFVVKGGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAEWFTVL DLKDAFFCIPVHPDSQFLFAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDLTLVLQ YMDDL L LVTHSETLCHQATQV LLNFLATCGYKVSKLKAQICSQ QVKYLGLKLSKGTRALSEERIQ PILAYPHPKTRKQLRGLLGITGF CQIWIPRYSEIARPLHTLIKKTQ KANTHLVRWTPEAEAAFQVLK KALTQAPVLSLPTGQDFSLYVT EKTGIALGVLTQHYGEERNS*L PTEYLSNIRKPLGDYYWLYRNL KRWQSYTARVIRKERKKGK
8039	38407	A	8094	3	521	

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8040	38408	A	8095	1	3203	DSPLSTKAMLGMLVKDHWSPA AQTPFFVIKEGGKRGAGLLHGO LILKDKFITQSAADIKEKLQKST LGPERNLKTLNLATSVFYNRD QEEQAERDKRGKKKATTLVMA LGQADFGGSGTRKAWANRMP NRAYFQCGLQGHFKKDCPSRK PQVCLTIESQEVNCLLDAGAAF SVLLSCPGQLSSRSVTIRGVLGQ PVTRYFFQPLSCDWGALPFSHA FLIMPESLTPLLEREILYKAGAI HLNIGEGTPICRL
8041	38409	A	8096	13	183	VHLHPQGHVPVKHTPTGLGYS SCRHLLGRACY*KGEVGAKA GMQVSDALPRLGGVS
8042	38410	A	8097	1	2427	MSKFSCASLTATESDGTPLMEQ YVPCPVCETAWAQHTDPSEKS EDVQYFDMEDCVLTAIERDFIS CPRHPDLPVPLQELVPELFMTD FPARLFLENSKLEHSEDEGSVL GQGGSGTVIYRARYQGQPVAV KRFHIKKFKNFANVPADTMLR HLRATDAMKNFSEFRQEASML HALQHPCIVALIGISIHPLCFAL LAPLSSLNTVLSENARDSSFIPL GHMLTQKIAYQIASGLAYLHK KNIIFCDLKSNDILVWSLDVKE HINIKLSDYGISRQSFHEGALGV EGTPGYQAPEIRPRIVYDEKVD MFSYGMVLYELLSGQRPALGH HQLQIAKKLSKGIRPVLGQPEE VQFRRLQALMMECWDTKPEK RPLALSVVSQMK/APDFCHLHV *TVLWEADSLLLIPGPGVHRGV LGWKRGVQELHGG\NTEKGLM EVQRMCCPGMKVSCQLQVQRS LWTATEDQKIYIYTLKGMCPN TPQQALDTPAVVTCFLAVPVIK KNSYLVLAGLADGLVAVFPVV RGTPKDCSYLCSHTANRSKFSI ADEDARQNPYPVKAMEVVNSG SEVWYSNGPGLLVIDCASLEIC RRLEPYMAPSMVTSVVCSSSEGR GEEVVWCLDDKANSVMYHS TTYQLCARYFCGVPSPLRDMFP VRPLDTEPPAASHTANPKVPEG DSIADVSIMYSEELGTQILIHQE
8043	38411	A	8098	1	1641	

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8044	38412	A	8099	1	1075	VLHKFPYRMVPALPPKRMLGA DREFIEARRRALKRNVNLVARH PLFSEDVVLKLFSLFSGSDVQN KLKESAQCVGDEFNLCKLATR AKDFLPADIQAQFAINSRE\LIRNI YNSFHKLNRNRAERIAS/RAIDNA ADLLIFGKELSAIGSDTTPLPSW AALNSSTWGSLSKQALKGLSV E\FALL\ADKAAQQGKQ\EENDV \VEKLNLFLLDL\QSYKDLCE/R GHEKGVF/HTKHQRALAQSTA* LKRPD*LSATGAEPSPPEVRGS KLKSRIRGARENAI\QTMELRN Y\FSLYCLH\QETQLIHVYLPPTS \HILR\AFVNSQIQGHKEMSKVW NDLRPKLSCLFAGPHRT\LTTPC SPPEDG\LCPH
8045	38413	A	8100	1	974	MPQVPAP/PLPSITSGHPGEP/PA RPSCSCLFSPQPCNSITPSSLLLR QLAVAAAGGCGGHGAPALSST GWQQVCKSPQVRSVPDNPTTA DSTASLAWKFGEVLRSHINCGY K*KQQPLLPHVAQRRRAQVSAP/ APPAGLSCGQHSLPQPPRCSDLS LGLHPGRLPCDRGHCPPLPPVT PTPDKAGPILDPAQSCPFCSIPA PPKQPSPPARFPKMRKKTLM MPPSEGSLSLASGMEASVFQRL LSRCTCLDQATVIWGFCYMQV QASQGIPCRGKDELLRLAPLPV KEARRTKPRSPGKHAKAPPSSS ACSPHLCCSSPILQALD
8046	38414	A	8101	1	460	SLQAPRRNSRAEHTRTLNSEC RRRRCCIKGCTYT*LDVAPPPP VLDWLVPKPRWLGGNGWLL DGPEEVLQAEACSTTEDGAEPL LCPSGYECHILSPG\DV AEGIPN RGQCVKQRRQADGRILRHKLY KEYPEGDSKNVAEPGKG\QQRH
8047	38415	A	8102	3	219	NNHRLDRTLPRDYCHAATAYT THELAFGDFRLPTEGHQELCHN SHLIYFRRDK*THCTWRSVDSL TGVTHR
8048	38416	A	8103	230	555	NVRPS*ALQAPWGRHHLCTVP MQLRMTLVVSSLGKGTCSGLSL AQ/CAPVQEGTHGGSPPEGVWL AATRTCEGCRRENTMKNVGS KYAFNSLQLKAFPKHYRPEDL RKS

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8049	38417	A	8104	23	304	KGFYLFNKQTIEQTNNNGSKSFA KRNTTEGHDDLLQGFQGSQTPS FLSSSGRCYSWGAIGP/QFGALS G\FSPFPHSAANRQSSALDFWIT TSISF
8050	38418	A	8105	99	375	VLEFGALSGSLISPLCTIPALVE PPCGPQPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSPQGVQ LPLGPR\RLKMNTEPPTRP
8051	38419	C	8106	5	376	
8052	38420	A	8107	545	990	GLCHVLQPCDPCLPPTMGEAQ PPEVLKTAGKAGGQEPG*L*RIP *GSLCPPCPVAFGAAAELPLPSS DPVSRTGAPPQGQ*WLGFGYFS SNEGSPQAGG
8053	38421	B	8108	252	801	
8054	38422	A	8109	169	1226	PNGLRPPCPSPASETGNAPVCD PGSSSQGAQGKL/KPGGLPGWL FPFFAQSPSEGLCPVAFG AAAELPLPSSDPVVRTGAPPQ GSW/PI*SPGSRSGTRADPVKGE VAGRERCLPIE*ASPGPHSG* AGQVPGAGPPRTAG*GV*TGTA PCPKAQPRK*QR*R*RCSS*VG* ESAEIVCPQGDAG*RGKSP*G/ SHRRNVPS/RYSNSHGPDYDSNQ PHRKTKITFEEDKVDSTLIGSSS HVEWEDAVHIIPENESDDEEEE EKGPVSPRSPRKR/PSATRAAA SRLRGS*TLGGLLCIFAFFAPP SPTEGACAHPAQSLSGPLRSFRC HLRILCPARGLHQGRDDG
8055	38423	C	8110	58	504	
8056	38424	C	8111	203	1874	
8057	38425	A	8112	32	1026	KLLEQCLHSVSTWETPQYRRPP SPS*RGSRQPCSFSSPRDTPGE NHWLSLPQRD*AGPPVR/PSAG GFMT/PPRGVPTVEVPPDPTC/S PNHTRPFRPFPSKNPCFRFPEPL RAPTLVPGPLPPTHGRVPHLE RNLSALGLGKSEGLKRNPCVEP /PAPTPIRFPKITGTPLR/PAADH ALLGMRDQSLSGQSPGKSPDA DDQLQNRDHTETEQRISGRSS ALAPESQLQGCAGIHFRGRFC KAPPLASGPA/RPPCLSLPPPW APVRPKPPR*APPPAP/PVPSPIN HPRAEECGRTARDWQAAPLAA LVRDPLDEASWAPESGGDVEN LYV

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8058	38426	A	8113	3	909	TEGGASHRAHPVGPAPRGVKRH SGATEPANGTWARRRGPRDS SNQSSGGGERSQLRHRGWRL SRPLLPPGAASPLAGEDPERNA GIGWRGGAAPMRPKRGPMNGG GCGPGAGSGAGGEALGRGRGA VSGCRPAPPVRPPPPPPPPGG WLRRTAGSGPEYV/GSRCARGS GQVSAGGGLCARAARGGKLAP RLRALRGRPSWPAPLGRSPAR APARVPAGRCGPGA*RGRCAL GGQGEEGPAGSEGAGRPLPGRP GCPGTSPRLLPRRPVRKTDVGN RSSFFPRAPGRAPHACQPTQFLII
8059	38427	A	8114	1	454	
8060	38428	A	8115	2	172	MFIYTSAFI*QFTNSINIPI*TSFC *TASVHLSCIVAVFCFHPQCQSS SFIQCTTN
8061	38429	A	8116	1	594	LAPVFKLIPMPVS/YGIFLYMG WAALSSIQFTNRVKLLLMPAK HQPDLILLRHVPLTRVHLFTAI QLACLGLLWIIKSTPAIIIFPLM LLGLVGVKALERVFSPOELLG LDELMPEEERSIPEKGLEPEHSF SGSDSESELMYQKAPENISV N*LE*ESGSGDPRKQHEVLTQE VRTFLAFGLTSRCSVGLGKD
8062	38430	B	8117	1	3402	
8063	38431	B	8118	1	4614	
8064	38432	A	8119	3	435	DHAKLGTRTSGMRPHSLSLCFF SSSYDILMRITKDRVKNLTCITY TILPTDLQPGCGLPRSFYPSSKP TSFWLWACKLFPPLPISFNPSPA HSKTAHGHSGKHTEAGM*WS* TGEGITGRCCFVSIKAPPLPSSG PVGGPVGG
8065	38433	A	8120	1	525	MALLPTVLCLWAQAQFLVDLG QSNKSHQEHQLAPDVAFAMK GACVCAAGFRGWRCEELCAPG THGKGCQLPCQCRHGASCDPR AGECLCAPGYTGVYCEELCPPG SHGAHCELRCPQNGGTCHHIT GECACPPGW/IG/TV*GPPSPGSL LGCLPRETSISLISSIQLCLYLL

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8066	38434	A	8121	1	1050	MLIMTFHGLLPCMOMACKWQ LRVLVAGIRCDSTCPPGRWGN CSVSCSCENGSCSPKDGSC APGFRGPLCQRTVHILYPRGCGI RDVGESGNRKQKAVEQYREH WTVSPEVQCSASHFSSVRPKSA CPPGFWGPACFHACSCHNGAS CSAEDGACHCTPGWTGLFCTQ RCAPGTFGYGCQKCECMNNS TCDHVTGTCTCYSPGFKGIRCDQ GIMLLL/CPHCGAAGPICLASAA AEREGPRPGSPCLLHTCHEDDQ HRLPLSGANSIPTYR*SGRPDS PLRTEALILPQCQKFSGSQGEV CAVSCAAGTYGPNCSSICSCNN GGTCSVPDGSCTCKEGRICLQ
8067	38435	A	8122	3	732	IRCDSTCPPGRWGNCSVSCSC ENGGSCSPEDGSCECAPGFRGP LCQRICPPGFYGHCCAQPCPLC VHSSRPCHHIIGICECLPGFSGAF CNQGVQAPTGNPSGWYRS*EM TDPRCSCR/CLSGESTRHTSPVL LGTDASETQVIGFVNLAQFLIIC PRKLHYKAQNSKKSNGSDASS DWKDWGIWDRESCEELCPPGS HGAHCELRCPCQNGGTCHHIT GECACPPGWTVGA/HC*ALCCP
8068	38436	A	8123	77	864	PAVPEL*VFQAKPERKSRYWQL HFPPHSSSPTSWRKSLEPMYRC TCPPLTPYGCTCPPLSPYRRTCP PLTMYRRICPPLTPYRCTCPPLT PYRMFSSPLHKEITSAQRSPEPS SRPHSSKAAALR*QPRIMEKQRI YGPSPTSVQPASPPCLDDPRKK AERPDHRATGKRHLPETSL/YA ELVRRRAVENPEDSEAPAPAPAA LSPASEHRTDPIQETKKARKSSD NDGSTPLAQTPTRRSSQWPRLG QFQQQEDDSSGLYSTG

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8069	38437	A	8124	314	1188	KHFLNFCLPYMILNKYRNQYCT FNDDIQGNKIFTAYGSITCLKLV HNCIKKIWLVD SKGLIVKVRIC HF*PE*R*LCHSGWPSNLEAIVQ EIKPTALIGKHFLLSLLPYPLF*P DCFFNERPIIFALSNTSKAECES AEQCYKITKVK*NYNRYFNNQI FIHYREATLYPGQGNN SYVFPG VALGVVACGLRQITDNIFLTTA EVL*NPLSLPRV*NTKCAQPRN TIRDVSLKIAEKVKPLL FKLHYF SFLLLNMQEA FVRSQMYSTD YDQILPD\CYSWPEEVQKIQQ
8070	38438	A	8125	1	1115	SPAQVMFQCLWKSCGKVLSTA SAMQRHIRLVHLGRQAEPEQSD GEEDFYYTELDVGVDLTLDGLS SLTPVSPTAS/IAACLPPPGAAR AAGAPSPA*SPAAACPA PAP CPEHRC*PPVLSQ*PCLPRAA*R PPAWSRMPRRLEPAHP PCPPGS ESS*GSPAATRISAGM*YGMEA PGPPGAQPAAGRKP\PAV PGLK SGSFKNIKLPPSPSPPPGPGAET ARRNKPQGAGPSAAGSAFNW VGVPDLTLEPFP PPGPEGSPPT QS/SPLKKPSFLH*SPNPHLS PF TPKGPGGSHPSRLSARRFIKGV MGPALGGQSRCTLRGVGEGTP PLALNSTALGPWGCFYPCLFLK LQVSHVWAATRRREKLKI
8071	38439	A	8126	116	333	KLRDRCLSH*K*NGASPPRPTN VSIMRPSLV/SLVHHSGL*FPQM LRALS*LRVFGVAVSSP*MVPL NPCIIISH
8072	38440	A	8127	5	829	KPSQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG /LFRPRDFYLRSPRSYGTRP*KSP QSSPRGSARPD\GPA\PPPEPPV KRRARGVLESSRHAAPRRVFHL GREREQSQEGPA WPKRGRPAPS PQRTATWRPAAGGGK*GSAAT S*ARAGPARRGKRRG*EPREN RAGR PATRGRPPGRRCCPPA*S PRPSKRSSPLCSPRPSWPPTPS KSSYGASLARTTTTLQWKFSVNL IRKQIRDAQ

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8073	38441	A	8128	5	844	KPSPPQPPCPRPGPPRARFLRRSP DVEKIPFA*RPCDVRGRPPAGG ARRRAASLG/PWVRRRLQARPG RFAPGTFTCGAPRSYGTRP*KSP QSSPRGSARPDGPAASARATR EAQSARGLGELAARGSQAGLP LGKGARTEPGGSS/CSQGPAPW KRGRPAPSPQRTATWRPAAGG GK*GSAATS*ARAGPARRGKRR G*EPRENRAGRPATRGPPGR RCCPPA*SPRPSKRSSPLCSPPS WPPTRPSKSSYGASLARTTTLQ WKFSMNLIRKQIRDAQ
8074	38442	A	8129	795	914	RGIRLASEMYPLTCFWRS*LYR RGLARIALVNCRRNAL
8075	38443	A	8130	4073	5350	YSLKSGSVTPLALFLLKIDLA MQALFWFHVNFVFPNSVKK AIGSLMGMTLNL*ITLGSMIFIT ILILPTHEHGMFFHLFVSSFISLS NGL*FSLKRSFTSLVSWIPRYFIL FEAIVNGSSLMIWVSVCLLLVY KNACDFCTLILYPKTLKLLISL RRFWAIGQWGFLDIQSCHVQTG TI*LPLFLIEYPLFPALLPNCPGQN FQHYVE*QW*ERTSLS\LPVFKG NTSSFCPFSMILAVGLS*IALIIL RYVPSIPNLLRVFSMKGC*ILSK AFSASIE/YNHVVFVFGSVYMQ FLLVPLVEFGCESIWSWTFFGW *AIDYCHNFRSCYWSIQRFNFFL V*S\GRVYVLRNLSISSRFSSLFA *RCL*YSLMVVCISVGLVVISPL SFFIASI*FLSLFFFTSLASSLSILL IFSKNQLLDSLIF

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8076	38444	A	8131	1	1715	MDGISGGKRALRERHSKSKAL GRCFPWTNITPPALPGITNDTTI QQGISGLIDSLNARDISVKIFEDF AQSWYWILVALGVALVLSLLFI LLLRLVAGPLVLVLILGVLGVL AYGIYYCWEEYRVLDRDKGASIS QLGFTTNLSAYQSVQETWLAA LIVLAVLEAILLVLIFLRQRIRI AIALKEASKAVGQMMSTMFY PLVTFVLLLCIAYWAMTALYL ATSGQPQYVLWASNISSPGCEK VPINISCNPTAHLVNSSCPGLM- CVFQGYSSKGLIQRSVFNLQIY GVLGLFWTLNWVALGQCVL AGAFASFYWAFHKPDIPTFPLI SAFIRTLRYHTGSLAFGALITL VQIARVILEYIDHKLRGVQNPV ARCIMC*FKCLWCLEKFIKFL NRNAYIMIAIYGKNFCVSAKN AFMLLMRNIVRVVLDKVTDL LLFFGKLLVGGVGVLSTFFFS GRIPGLGKDFKSPHLNYYWLPI MRNPITPTGHVFQTSILGAYVIA SGFFSVFGHVCGRSFLCFLGK DLGSVNNGFPGDRPYY/MVPRA FLKILG\KKNEAPPDNKKRKK
8077	38445	A	8132	1	208	GTRASSPAPCPSSSAPAHSEAC CCRMSLWGSCGSGDGSSACG SGWNLSMAGTSCSSPAMCSPSR APS*RSASRPRTWRATTSAA WAPRRCWCGWA*SAT*PSSTTT ISSSPHCGWPCASCASAAWL SSTWATASVAGSCWGPIM*SSA PAHSFEACCRMSLWGSCGGS GDGSSACSGWNLSMAGTSCS SPAMCSPSRAPS

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8078	38446	A	8133	28	1956	SRAARERGRSDSGGRSDPGCPA VPACVPRSRPSMTAPAGPRGSE TERFLTPNPGYGTQAGPSPAPPT PPEE/VRPSPSS/TNTFS*VPATSF EPRAASPAS*CCKWSRSWWSR CSSSCLGSVISWL*HSGKRTSPSP SDTSSCWATRTERMTSPQPTRG SSCTRPSSMLWT\SAGGRAGAG GQAGAVPGVA/WTCHWAGLLS ASGTTTEATWTRPTHTLIRW WLLTASRWIPSGPLRPPATISP SWKAAPVTRTSRNSNSTACSL EGGPGVSTWQGTALGAGRDP KTPLTLTRASCLGWSMSPSTSG *RPLTSRASSIMRSRTAIPSAS*S RLTTKHTVGGSPSAWRPRPTSR SVSTPVSSSTGGQQLPGSCLTW WSYSPAPCTSSSISPLTPSRLPAA EQSLWGSCGGSGDGSSACGSG WNLSMAGTSCFVTSVDLHHLG HHS*RSASRPRTWRSLRRFAAS SWAPRRCWCGWA*SAT*PSSTT TISAHSPWCLSACSRSSMGTTTC L*RSPPCRRSRAAAA WCGSSPS STFTPSSSLFILHGAQPLHRAHH RAPTYTIKHSRRRRRKRRASCR PYIAQCQPGPHLRQVPPRERAR PIAILLLLRKGPLGGFAAAGELI RPDCRWTVGPGLQRPPPTPLIYL
8079	38447	A	8134	1	2994	MQRPCLCVEPMRLCFDSFLLLV NQGEEEEGVPCLEENGRAAA DPGPQDQDCLLPTLTPSLSGDE APDRTQSSGDPRERCGYLSVTC EEGDNRFAAFCLCGSWRLNHG HADWCDQRRSQISNRLPASLGII VGTRGSRHLLAALRGVKEDRQ TKGCVQTPASLSPWLPGLSSET RAQKTCSVLLIDYATFLKLAND DDDGCLDCLQPGVRTAWASSQ HGIRAPRKSVQGSASSPSLRTW ALTCTQNWFCVLLVK
8080	38448	A	8135	215	418	

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8081	38449	A	8136	767	1458	WREHLTKFNVWGKQHLESLSNS QQKNMRCPVRSQTRPPTDVKP VSRSGRREDRRAAGGEGGADR QGGPGTARARAPGSPQRGG*GR NLR\QAGPPGKHGRGIPPPQTRG RSRGAPPGTPEGPRHPPRPASRA PGPATGAPKRPQPQTQRQGHIA RDSRPSSDPVPLRETGAPPPWD A\SQGQAARPRATQTPSSAPVA TRQGSRRADSRRRGVTRRTER CAQPSLA VSRVPTR
8082	38450	A	8137	3	424	
8083	38451	A	8138	1	813	MVQKELEEEGRKSTPQSWGRE NMEKALNSSLKASLGSGGVMI CASVKALLTVVIKVLGRLLAES LFLLLQTQTAL*QTL/RHTNRNI SHQYQDEIIILDGSDLPRMSPRR KYEPPVFPGRKTYKISIRKAN KKCEEARQEKEAMVMKYVRG EKESLDLRKEKETLEKKLRDAN KELEKNTNKKIKQLSQEKGR LHQ LYETKEGETTRLIREIDKLKEDI NSHVIKVKWAQNKLKAEMDS HKSFKNPLVRCNFAATFGYYK KLIPEIKTGSSH
8084	38452	A	8139	3	808	NVRVEPTDSSFMEAIEFAQKGA FDAYVAVGGGSTMDTCKAAN LYASSPHSDFLDYVSAPIGK GK PVSVP LKPLIAVPTTSGTGSETT GVAIFDYEHLKVKIGITSRAIKP TLGLIDPLHTLHMPARVVANS FDVLCHALESYTTLPHYLRSPC PSNPITRPAYQGRNPISDIWGYS TRWGFVG*VS*RRAVQEIPMDL *KARSHMHLASAFAGIGFGNA GVHLCHGMSYPISGLVKMYKA KDYNVDHPLVPHGLSVVLTSP AVFTFT

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8085	38453	A	8140	2	1154	IDPLHTLHMPARVVANSQFDVL CHALESYTTLPYHLRSPCPSNPI TRPAYQGSNPISDIWAIHALRJV AKYLKRAVNSTDK*RRRMSLR APSWEWSPSPRGPARCLPRRFY IT*GS*QRYLLWPLLETVDEKY VSLQFSFRRQGVV*ITCLIFLPT *HFFFFHHIFP*GSSLFCRNCQC* CVIVRYLYHSQGWQKSR*S*RQ GLIWHLGKCFLLGIGFGKCWVF ICGHGNV/SYPISGFRWKDVIKG KGIYNVGIHPTGWPPWAFSVVP HVPQRCFTFHGPRCFPERTPWR WQEILGADTRTAQ/RSQDAGLV LADTLRKFLFRSG/IVDDGLAA VGYSKADIPALVKGTLP/PER VTSFAPRPQSEEDLAALFEASN ETVLNVHLN
8086	38454	A	8141	2	990	WENWISIC*RMKL/DPYFSPYTK IKSKWIKDINVKPMKLLQEN IRETLQDIGLGEDFSQAQATKA KVDKLDHVKFKNFCTAKETIN KVKRKPKEWEKILIFADYPSDK GLITRILFIDHSWVFLGEGNLAG SSDNSGGKAWKHLLPLLASRCS GTHSNLRAKLRLSQGTVAWTP VLKREGEKSCGPSESPDLGAPQ ARDVTPCLGICSSWLLQASGHH HIPWCQLWKLFFVYLVQLQPH REVALVPAPGAHPTTASVPVC AQWLDPMVIHSHTLCCSEPDS LAGMGFRPVAQAKHNPAPRSG WNESSRPEQNLDKGATSHRGF WLAR
8087	38455	A	8142	1	196	GQYPWPLETNPRFLRE*TLPKS LQKSL*DSPVPE*SLCGTCQQA RSLSEEVDESSISQQVCCPT
8088	38456	A	8143	3	413	ITLGKDCIMHGYML/KLGNPFL TQWQRRYFTLFPKNI*WRRRGE SRQNLLTMEQILSVEETQIKDK KCILFRIKGGKQFVLQCESDPEF VQWKKELNETFKEAQRLLRA PKFLNKPRSGTVELPKPSLCHR NSNGL

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8089	38457	A	8144	705	1983	EIKVDSSLLKSFLDLMNGKQNL ENLNALKDFAMMLNLSYATEII LGLEHMHNRFVVRDLKVRTI DRLILHSRYCVNGPLEDKVTEK DFPGNPEIKPS\GKWLGCPS*K PTLSQRGLMTLPCQTLGSG*LSF PE/VLDLP*WTNAHFADWFSLG CMLFKLLRG*VEMHPSSAVLM AAGAWMKTTVVRGFKTVFLSV W*LSCFIPSKRDVSKRLGCHGG G*AIVPAFRYLYQSKIVILNFQ YFPPLIPPRGEVNAADAFDIGSF DEEDTKGIKVHM\CHLFLYFYF WM/VMISVGKQEVTTETVYEAV NADTDKIEARKRAKNKQLGHE EGKIAHVSNISNAVNFQNFY LTQWQRRYFYLFPNRLEWRGE GESRVSLRQPHRACFPVRTMAY GYWLLRRAPKFLNKRSGTVE LPKPSLCHRNSNGL
8090	38458	B	8145	156	281	
8091	38459	A	8146	2	181	VWCCSRTATLRTRNCARRRCS RGSRTWKRSGRSSRRRAH/SQ YDLERLRAAQQLEREQE
8092	38460	A	8147	3	670	ETGLKNEGRVLVRHSAWCPLL WGREGSRSSLSSWPQLQGSPLC ASQGVVLQQDSYIEDQKLVLSE RALTRSLSRPSSLIEQEKQRSLE KQRQDLANLQKQQAQYLEEKR RREREWEDREREL\DGRPSWP SARRRCSRGSRTWKRSGRSSR RAH/SQYDLERLRAAQQLER EQ\ELRREAERLSQRQTERDL CQVMGLPAESNLMMILIKTPCV LSKVRK
8093	38461	B	8148	47	699	
8094	38462	A	8149	1	242	MNRGGFAVKILALLDALSTVCS QRVQKAKKQQHLQNKEHFKA LLKQKEKLKQEDL/RKKLF*IQ GIRCPQATPHHGQCSL

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8095	38463	A	8150	3	929	ASSCVVRAVPPG/SGVWGFRCG LCGPDCESGLLISGRMFAGPQ G/PPGAGTAVTLAAGEEGLES STAQHSGSLCSEEPPIVPRRHA WQKSYSRNWLPPARPRPALA MSSDTRGQAQLSPSWQLEKKG LSSSTAQRGCRAQGRAASARR \QRGKANPTAGTGWLR LAPGLP LLCPQTPGGRHSCHPPG/K/PGK EGLEQFYSSARLQGFAGKSRQV PDVTRGKANPTAGTGWLR/HR GPRGGEACAMAVRGRPSHEQR CPWSAGADSVS*GHCEGTDGR VASGACLQVDSRGSAGQNLPL DPEHWHVFCDFP
8096	38464	A	8151	2	1749	WVQGASLCVRASRAPLPLARP* VQGAELTHPWGPA AHP*TRNQ KPALGSSGPHSPHGNPQTPTQA GQP*PHTARHGPVQEHGRGQR GPHLHKTETPQEATP*EVGSIAT EQA WLP HLCL*RPPPFHQGLFP RGPCMEGAQQRVEGSSSAQGT QVCMGPKTAGDWDGPWLVCW FH*GEAAARILRPGLG\GLSGHP LWPQGGGQMTVGYGGASEAC GAGELLMRRAPPQSPGKARGL PA/HYWHQCGQTGPRKAEI
8097	38465	A	8152	1	583	MAAVVAATALKGRGARNARV LRGKERDPGEGR TAEDPFSFTS SPTIAGGILAGATA NKASHNR TRALQN/HTASPEGKEEP*/DPLS PELENTFPRKEGQRTPMESCGN LPWA\IGFPLWLFLPLSSFTQAG KWDK/VTVLKAD*RLRAEHCG FSNTGRV*RARRFRAFLPEVAPF PLMFGSGVSGGADLRVCDPP
8098	38466	A	8153	141	341	GTRGSPSKKGERVRRDAQQT A TW*TRSPASGCFQICEGNKQDE ACDVRGLQHCHERHSLAGPREY
8099	38467	A	8154	1	521	MKNRSRNKGNVEWQAEGIRSK RSVGKQRPSKAKIPSGDKNGVS LTHNEVINNDNPLESNDEKEGQ EATCSRPIVP/EFQQ**LFRPE* WRRASGNLQLIPKKRVSA*GTR GSPSKKGERVRRDAQQTATW* TRSPASGCFQICEGNKQDEACD VRGLQHCHERHSLAGPREYMP

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8100	38468	A	8155	1	619	PEAELHNHGIQINSCSVRLVDIK KEKPFSNSKVEQCAQARTHNN QASDIIVISSEDESGSTDVDEPLE VFISAPRSEPVINRATPCELKC* KEG\QEAIC/SRPRDVPRALGFR KF\SPFEESFRKGLLGQDPDFPD SIEKKPPAEASSGVALRSKHGEK APMTSRSTSTWRIPSRKR\RFSSS DFSDLSNGKELQETCSSSLRRG SGKE
8101	38469	A	8156	362	1043	PTTPPSAGSSWTTASPPS*GKA WLGTGRPPSPWRRMSASMR\TS EEDGRLQPQLPL*AHPSESSGQ DRGNQVSVGREADCGQD/SPVS TMTRSHPGRPCAEGC**PCCSSR P*PCPCGSGSLVTSPLSLPAPSF WLPLRPS\SPPGLPPLQSSLSFPP PPPPVPQPPAPPALQWGLHLPG VPQPGVPAGRRVVRLSAKHLPR LPDHSV*GAPGRRSLREHLPQH RPGDQ
8102	38470	B	8157	52	633	
8103	38471	A	8158	15	3054	AGPDGLAAPASCQGARGQTRV PGAFSWLAPGSHHASEGLAPG VPPAGGVSAQELTAPPQEGWG LGAPPAAPRPESDEKRAAGSDAV RSFSRGARDSLGQRRLLGGTRGA GPAGKGAQRTMGPASGFHSFPP RPHQEPSRSCWQHLLWHCP WPQPSRLPRLTPAQLLQGPVGL AAPPGP*HVPGFLAQSPWPLPS GPRSP*DPLHQGALVPLPQGG PHTAPHCLPSVLSPAIQQLLPT AST/SSRSPPASTMAP
8104	38472	B	8159	748	3111	
8105	38473	A	8160	1	463	GGGGGRGQRGRPSRPRYLCPGP GPTG/GPGACAAGGVTGVPSED NGRPLLPPQRHPPVGDFSRRRC RFRLPKHKERSPDARFKEGPGG AA/GPGARGQ*DSARTPDS\ALK LVRPPLPIPTGRPSCASGGR*PA GKRGHLSAPPRGRSSPGPSQP

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8106	38474	A	8161	1	2733	MALRRAGAGRTGCFIADTML DMAENEGVVDIFNCVRE/LRAQ /RVNLV/QTEEQYVFVHDAILEA CLC/GNTAIPV/CKLQNLQNTK CTAMSNYTLTQGLLQHWLS*T T*FIWLAGTMRLCLSLCVDAAS APWVLKTLNIVT/PRVRPEDCSI ARPNHDKNRSMDVPLDRCLP FLISVDGESSNYINAALMDSHK QPAAFVVTQHPLPNTVADFWR LVFDYNCSSVVMLNEMDTAQR GQSFVGPLEFGGAQL
8107	38475	A	8162	1	307	
8108	38476	A	8163	3	969	GLFCSRKTTPSK*\KHNVIASDK AAEKSVVHEHEHSHDHTQLHA YIGVSLVLGFVFMILLVDQIGNS HVHSTDDPEAARSSNSKITTTL GLVVHAAVFYVSLFPNIADGV ALGAAASTSQTSVQLIVFVAIM LHKAPAAFGLVSFLMHAGLER NRIRKHELLVFALAAPVMSMVT YLGLSKSSKEALSEVNATGVA MLFSAGTFLYVATVHVLPEERL KLVTVLGAGLLCGTALAVIVPE GVHALYEDILEVVPFYYCHLY VYEYLMFSSHFCSPDPWQDQL LTLRVCSSTSASLGEGCLGVSSI RKGMELSVQAQHHVEVAKA
8109	38477	A	8164	164	240	
8110	38478	A	8165	2	417	QQIRKLIKVGLIIHKPVIVHSQV GCQKSTFS/RTRKGRHMG TG*R KSTANFQMPEKVTWMRRMRIL HWLFGRYHESKKTDHMYHSL YLKVQGNMFTNKQILMEHNHK LKADKAHKKFLADQAEARSSK TNKASKLREER
8111	38479	A	8166	1	86	RTRGCLSHNHH*HLHRHHLH HHYPYSY*HHHCLNYH/APYLF HWLYH/APHHLNQHAHYLHLY YHHHYNHHHHLHHHRSHCH HHHHHLTIHLLCQH HH HHHFHT KHL LLAHPQALQTHHNNHDM/ HHHYPYSY

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8112	38480	A	8167	50	1156	LLLQFSRATFILFQPPANTFTSA FSQTRARRGGSGRGGGQESAEE TSEFGDRHAPEAAAATRGSAR APEPKHASSCGTRGQCACARRE VEAQVRAKGDVAERARRGGR WLTRSGMEHLERCEWLLRGT VRAAVRRYLPAWLVASMLAGS LLKELSPLPESYLSNKRNVNLV YFVKVAWAWTFCLLLPFIALTN YH/HDRQGWLGPA/D*/CTLLV GTAIWYICTSIFSNIHYTGSCY QSPALEGVRKEHQSKQQCHQE GGFWHGFDISGHSFLLTFCALH DCKKRCLCLQ*R*KTD RSHCLH TAITTLVVALGILTFIWVLMFLC TAVYFHNLSQKVFGTLFGLLS WYGTYGFWYPKAFSPRTSSPEL
8113	38481	A	8168	2	926	
8114	38482	A	8169	2	1053	TRERFSVANRVGTSETVPKAEA GPESAAGGQEEEEGEDEEELSG TKVSAPYYSFWGTLEYHNAMV AGTEEARDGSAGVRVLYLYPT HKSLKPRPVSLEGKCRFKENCR FSHGQVVSLDEL RPFQDPDLSS LQAGSACLAKHQGWPLERQHA SPMWDNGYLHSQV*LAAARE AVVGGGRHPAPTAHKRPQESD SDSIEVRVTPAMPEWWGQMLW TLGPAALPLLGWVHTRGIGSR LLTKMGYEFGKGLGRHAEGRV EPIHAVVLPRGKSLDQCVELTQ KQTRVGKAGTNKPPRCRGRGA RPGGRPAPRNVDFLNEKLQGG APGALEAGAAPAGRRSKDMYH CQQECQAGP
8115	38483	C	8170	166	419	

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8116	38484	A	8171	55	1157	ALDEPHGAGASEERAGDVFGPP RRVPGPSLWPLEAWPTSSQKV MPQVRCLHLHQVWGQRGGPPR \KRWA WAARGHTGLGPTPHGP S\WTHSNFLKEKIF*KMFA\KQV GPEAKQSLPNGFPGVATAWSP VRSSVCPLFIKARPSC*QLQDSC WDPGGTETADPGHTGLELRFPE PPKPTLPLALSEAPVPQREEKTQ GRGHYPAPQCLPGDPCSPHHPA PQPHQPHPAR/HN*PPPPRPSSHP PTTVPPTRPQPWQPGCCAQPPR PCLH*RGGN*VY*GMQLHQKS VSWPHSQWPQKREGNGSSHEI HPSCPPSGFHGPSPEGRMPTQA GALHSWVPGLSLSHGSGPHPPP RWTATVQAARPRVPLTNL
8117	38485	A	8172	1	362	LFDNTVYCPRTERRLLKNDTKH QRHAQSACQLSTTLVCSQHRK VSDFIQHKHSAPLPQKSKRKQ NQQSFMLKTLNKLGDIDEMYRA IYDKPTANIILNGQKLEAFPLKT GTRQGFSLSPLL
8118	38486	A	8173	1	655	MIISTDAEKAFDKIQQPFMLKTL DKQGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPF SQLLFNLMLEVLTRAVREEKEI K\GIKYLGIQLTRDVKDLFKRN* KPLLNEIKEDTKKWNIPCSWI GRTNTVKMAILPKFR*WTR*RQ FSTVHKD*KLSETVSHSYLKIKF WKLKRPFLHSEPLKERQQDSV SLMNWVCMSSKGTQY

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8119	38487	A	8174	2	1936	DKPTANIILNGQKLQAFPLKTG TRQGCPLSPLLNFIVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLIS NVS\KV*GYKINVQKSQAFLYT TNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL N\EIKEDTNKWKNI PCSWIGRJN IVKMAIL\PKVIYRFNAIPIKLPM TFFTELEK\TTLKFIWNQKRARI AKSILRQKNKAGGITLPDFKLY YKATVTKTA\WYWYQNRDIDQ WNRTEPSEIMPHIYTIL\FDKPE KNKHGGKASL\FIKWCWENW LA\CRKLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI EDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DMNRHFSKEDIYAACKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKSGNNRCWRGCGEIGT LLHCWWDCCLVQPLWKS VWR FLRDLELEIPFDPAILLGIYPND YKSCCYKDTCTRMFIAALFTIA KTWNQPKCPTMIDWIKKMWHI YTMEYYAAIKNDEFMSFVGTW MKLETIILSKLSQEQTCKHRIFS LIGGN
8120	38488	A	8175	2	1105	LPTKKSPGPDGITAIFYQRYKE ELVPVLLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLMNIDAKIP**KY*QN*IPAAH QKSLSHHD\KVG FHPGMQDW FNIHKSINLIQHINRAKDKNHM IISIDAEKAFDKIQPFMLKTLN KLGGGTYFKIIRAIYDKPTANII LNGQKLEAIPFEMLKVMYRAF RQNKQIKGIILEKEEVKLSL FAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNTT QTESQIMSELPFTIASKRRKYL GIQLTRDVKDLFKKNYKPLLKE IKQDTNKWKNI PCS*VGRINIVK MAILPK*DVLASPSPTMTVTC RKQVQVL
8121	38489	B	8176	120	2036	
8122	38490	A	8177	3	316	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8123	38491	A	8178	1	1447	MSIRVTQKSYKVSTSGPWFFSS CSYLSGPSAHISSLFSRAGSSSF QGGLGRGYGGASGMEVITAVM VNQSLSPINLEVDLNIQAMHT *EKEQIKTLNKFASFIDKVQFLE QQNKMLENKWSLLQQQKMAQ SNLDNMFESYINNLRWQLETLG RKKLKLEAELGNMQGLVEDFK NKYEDEINKYTEMENEFVLIKK DVDEAYMNKVELEYRLEGPTD EINFLRKLYEQEIRELQSQILDM SVVLSMDNSHSLDMSIIAEVK- VQYEEIANRSWAEARMYQN* YEELQMLAGEHGDDLSTKTEI STINQNISWLQAEIEGLKGQRA/ SLESTITDVEQRGELVIKDANA KLSQLEAALQRAKQDMALQLH EYQELMNFKLAQDIVITTYRKL LESEGSWLESQMMSIHMKT TSGYAGSLSSAYGGLTSPSLSYS LGSSFGSGAGSSSFHTSSSTRAA VVKKIEAQNGKLVSKSSDVLPK
8124	38492	A	8179	272	1813	KCGLRSRSSFSAPSRISAWFGPP ASTPASTMSIRVTQKSYKVSTS GPRAFSSRSYTSGPGSRISSSSFS RVGSSNFRGGLGGGYGGASGM GGITAVTVNQSLLSPLVLEVDP NIQAVRTQEKEQIKTLNKNKFAS FIDKVRFLQQQNKMLETKWSLL QQQKTARSNMDNMFESYINNLR RQLETGQEKLEAELGNM QGLVEDFKNKYEDEINKRTEM ENEFVLIKKDVDEAYMNKVEL ESRLEGLTDEINFLRQLYEEEIR ELQSQISDTSVVLSMDNSRSLD MDSIIAEVKAQYEDIANRSRAE AESMYQIKYEELQSLAGKHGD DLRRTKTEISEMNRNISRQAEI EGLKGQRASLEAAIADAEQRGE LAIKDANAKLSELEAALQRAK QDMARQLREYQELMNVKLAL DIEIATYRKLEGEESRLESQM NMSIHTKTTGGYAGGLSSAYG GLTSPGLSYSLGSSFGSGAGSS SFSRTSSSRVVVKKIETRDGK LVSESSDVLPK

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8125	38493	A	8180	1	3519	MHKELPALAACGLVADFPVG EEETADFGPLVLDSDDSDVDR DIEEAIQEYLVGSSKDQGSASP VSMSRADSFQESIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVHRQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8126	38494	A	8181	208	445	AACVWRERHHRAEECGCPGVH LPPLLHP*KSKWPGRC/RLRGN AAHPPWGGQATPALCGGLQ QPSSQ*GLSSLGGSR
8127	38495	A	8182	1	1607	MDMFRSGIRRDGGLGDGIVRA RRRRQGALAGSSQPIQAAA VPR GPAGPAPRDP RSWPSCQSSGEA *PYWKLEGAGLE/RKRGTEIRA VGEQLESWRWRKDVAGCSSP TPIPEFGAAAPTGS/GPAGPSSTQ QPSSRIWAAPRKRLAG*DTAHK NHP/SAAP*PAPQDRARPK*PPR ADPQRSVTPPRSPKGS*GSPFFP KQ/PRIPKSGAASEASNPLLAITS QVVGGESESETRVEGLMKEESV REGNAAFSRFLRKS/ACKPPAS EKDRGSRAAEGDEHASSNLQEP IPHLP*TALGERPEARQPIRFRP PGEPCSHPRSVNELGTGEPHTF QLGCLQRHPGAVDQAGPRGPG AGSRARETGKTGTNSEAAVRQ EPKQRILSKIHTSSTPGHRL/EPT AFRTRSARSPELASGHQAGKVV AGPRVRARGA\PTGRPGLAAR PTEAERASRAPC\PPQTDARLFI TARPRGKSGCRLPAHSPPDPPSR LPGPRSRSR/LSPA VRVVAAGEK EASGAETA FPAWGTMALFWSL QPRALQAL

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8128	38496	A	8183	3	683	ERGITAGPPGVHPPTARSAGAA LPVWDSSACVEGVRPAPAMDP *EHQLR\SGLGCCQDTLMLIESGP QVSLVLSKGCTEAKDQEPRVTE HRMGPGLSLISYTFVCRQEDFC NNLVNSLPLWAPQPPADPGSLR CPVCLSMEGCLEGTTEEICPKG TTHCYDGLLRRLGGGIFSNLRV QGCMPPQVCNLLNGTQEIGPV GMTENCNRKDFLTCHRGTTIM THGNLAACI
8129	38497	B	8184	230	252	
8130	38498	A	8185	29	316	GRVSRCLPFKLVTPVLCFCLWH RSY*EYRNF*MNQISKTLQKQR PTRFTG**QPWPRWW/PAPPRPS QGRLAGREWSTQAHPRDSQGP RLCGEGRGA
8131	38499	A	8186	1	57	SRPVQAGPKATGTPQPPPS*PEP VERPLSMASGTHAQGPSPPSW PQLTGAVAQDSPSPGLLPPRDT APAPSMPTADGVQRCARQSGN TGPRVAT*PVAPTSFPAGPDSGE MG/ESRRRRPGT*PTPFQSRLEFR RRPSASRIYGLGPCVISL/HKK QKSLPPLAPPGTITVDILFTWAS SLFSLNATEGHTVRHV*CSRRN YQKANAPRTPTASPNTRSHSLG NAKTPPQTVPHRDHPTPQEHTG DTSSCVAVLSANTRERAAVEC GVTVLNLD*LK*TARYSMSSA STGVAGSVQGKR/LRTSALSSG G*GPKATGTPQPPPS
8132	38500	A	8187	1	3564	
8133	38501	A	8188	154	256	
8134	38502	B	8189	1	1206	
8135	38503	B	8190	1	1311	

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8136	38504	A	8191	2	2491	EAGEWEEGPSQNGLVLQGEKL PPDFMPKLVKNLLGEMPLWVC QSCRKSMEEDERQTGREHVAI SLSHTSCKSQSCGDDSHSSSSSS SSSSSSSSSSCPGNFGDWDPSF LAEHKRLGLWNSPHSIGAMPGS SLGSPPTIPGEAFVSEHHQHSD LTAPPNSPTGHHQPQA/LSNP/AL TPAPLAP/APHPHLLPTTPAAPFP AQASECPVAAATAPHTPGPCQS SHLPSTSMPLLLKMPFPFGCSHP CSGHCGGHCSGPLPPSSQPLP STHRDPGCKGHKFAHSLACQ LPQPCEANEGLGEEEDSSSERSS CTSSSTHQ RDGKFCDCCYCEFF GHNAPPAAPTSRNYTEIREKLR SRLTRRKEELPMKGGTLGGIPG EPAVDHRDVELEFINSTEPK VPNSARAARARHKLKKKEKE KAQLAAEALKQANRVSGSREP RPARERLLEWPDRELDVNSFL SSRLQEIKNTVKDSIRASFVCE LSMDSNGFSKEGAAEPEPQSLA PSKLSGSSEQQPDINLDLSPLTL GSPQNHTLQAPGEPAPPWAEM RGPHPPWTEVRGSPVFPENG LVRR/HEHRAQPIPGDLGQDTQ AG\HPSSEEASSKEVPSCQELP EPVSSGGKPQKGRQGSQAKK SEASPAPRP/TSQPRGSQCQGP RWP/TSSQAGS*SLPK*AAVLKL ERGAGGAGQDQVGLAVPKLRR
8137	38505	A	8192	277	434	
8138	38506	A	8193	4	168	
8139	38507	A	8194	26	219	PRLQCIGQPRLTLPPGFK*FLCP SLPSSWDHRQTPT*LANF*KNY F**IWGFTMLGMGSGTCNP
8140	38508	A	8195	1	498	
8141	38509	C	8196	105	251	

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8142	38510	A	8197	1	1620	MWGVGKITDPKDVDTLIPGTC GCVTLHGERHFVDVIKAGPTRS VQGNPKLGSKKMEVSIMKTQE SIKLTVKATTQRRNRNESNGPT TEFHQSTMTNTHSDTWMVVLD PMKPGGPFEVMAQQTLEKINFT LRVHDLVLFQDVWLCSGQSNM QMTVLQTLSCGVVTVIFIMTLA GAHGSTLSSGIFSIYQSDSLKCK SGRKAPVGPRVLRGTYSQSE NSTGNPDLFVQDHTWQFCTKH SGSYVASMETVDETAFILSTHT SFRTDWELKCFITVRRQLGRQY ERTCYLSFRPVANTVEYCIGFRF ASYINNDMVLQKEPAGAVIWG FGTPGATVTVTLRQQQETIMKK VTSVKGLISLLVCLSQFEIVPED DPQNAIVSSADACHAELLRTIS TTMGKLMPNLLPAGADFFGFS HPAIHNLIQSCPGARKCINLPAS RPVGLSIGPLSPDYSQWVKFD VCKPGDQQLPEGLPENDAAMS FEAFQRQIFDEDQNDPLL*SSL* PWLVMVPL/WSSGIFS/TISK*L FEV*VGSESSGSPCAEDRLHM VSRKFHRKSRPVCSSYLAVLH *ALRILCCFHGNSG*NCFHSLHP H*/HSALTGNSSASSQ*DASLGG SMREHATCLLDPLL*STVLV FALLHTSIMIWCCRRSLLGQ*Y GASVHLEPQ*P*PCAKVRKPS*R K*PV/CKGLISLLVCLSQFEIVPE
8143	38511	A	8198	1	900	
8144	38512	A	8199	915	986	IITDRPGFHDESAIYPVGYCSTRI YASMKCPDQKCLYTCQIKDGG VQPQFEIVPEDDPARNAIVSFFW QMLVMQNSQDYKALLWGKL MPNLLPAGADFFGFSHPAIHNLI QSCPGARKCINYQWVKFDVCQ TLEMGQLPEGLPENDAA\ALK PFQRQIL**RIDKRNLKIKQL KVFPKGKTITRTTFHDEIPLVSSLP SELLPSFIYPKILV
8145	38513	A	8200	3	414	
8146	38514	A	8201	1	2445	
8147	38515	A	8202	1	248	ENGNLGPIQAEVKGATGECNIS ERKSPGVEIKSLRELDGSLVH KIAEGFSESSEKRSSEDENENKIE FRK/KGGF*GGGFLRRK
8148	38516	C	8203	70	324	
8149	38517	A	8204	1	675	

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8150	38518	A	8205	692	808	
8151	38519	A	8206	1	1954	PGTGEETVRLGFPVDPKVLIV AGHHNWIVAAAYAHFAVWYRI KES*WQQVFTSPYLDWTIERV ALNAKVVGPHGDKDKMVA ASESSIILWSVQDGGSGSEIGVF SLGVPVDALFFIGNQLVATSH GKVGWNAVTQHWQVQDVV PITSYDTAGSFLLLGCNNGSIYY IDMQKFPLRMKDNDLLVTELY HDPSNDAITALSVYLTPTKTSVS GNWIEIAYGTSSGPVRVIVQHP ETVGSGPQLFQTFTVHRSPVTKI MLSEKHLVSVCADNNHVRTWT VTRFRGMISTQPGISTPLASFKI LSLEETESHGSYSSGNDIGPFGE RDDQQVFIQKVVPITNKL FVRL SSTGKRICEIQAVDCTTISSTVR ECEGSSRMGSRPRRYLFTGHTN GSIQMWGSGPLLWDMVNKSE DKDVSGPTEEELLKLLDQCDL STSRCATPNISPATS VVQHSHLR ESNSSLQLQHHDTHESATYGS MRPYRESPLLARARTESFHSY RDFQTINLNRNVERAVPENGNL GPIQAEVKGATGECNISERKSP GVEIKSLRELD SGLEVHKIAEGF SESKKRSEDENENKIEFRKKG GFEGGGFLGRKKVPYLASSPST S\DG GTDSPGTASPSPTKTTSP RHKKSDS\SGQEYSL
8152	38520	A	8207	2	383	
8153	38521	A	8208	13	332	SKGFIVLLKCLQILKTPSLGPGN QGLNAGKESRGGGLSVKA*RA RPDSWRPGPPLSISITLRLKEG RRHHRALPLCCIITLLASSPNCI AP/TSVP*IPRLHPFWL
8154	38522	A	8209	1	1839	
8155	38523	A	8210	1	364	
8156	38524	A	8211	3	3723	MIPAGGRAPGPPYSPVPAESEL VNGNHTPQTATRGPSACASHSS LVSSIEKDLQEIMDSLVL EEPGA AGKKPAATSPLSPMANGGRYL LSPPTSPGAMSVGSSYENTSPA SPLSSPASSGSCASHSPSGQEPG PSVPPLVPARSSSYHLALQPPQS RPSGARSESPRLSRKGGHERPPS PGLRGLLTDSPTTVLAEARR ATNETPRLGGQLPVVAISLSEYP ASGALSQPTSIPGSPKFQPPVPA PRNKI

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8157	38525	C	8212	398	415	
8158	38526	A	8213	3	45	
8159	38527	A	8214	1	929	IAAAPELLERSGSPGGGGGAEE EAGGGPGGSPPDGARPGPSREL AVVARPRAAPTGPSAAAMAR PLVPSSQKALLLELKGLEQEEV EGFRVTLVDEGDLYNWEVAIF GPPNTYYEGGYFKARLKFPIDY PYSPPAFRFLATKMWHPNIYETG YVCISILHPPV/DTDPQSGELPSE RWNPT\QNVRDHSS*V*SSLLE RRPNTFLRPANVGRLPWMLQG SWEREQGGRIRELHRTSFRKQV LGTKVDAERDGVKVPPTLPEY CVKDQGRRAPDEGSDLFYDDY YE\ DARVE\EEADSCFGDDEDDSS
8160	38528	A	8215	80	430	IAQGPFYPPGWPCSGPGGNTSSP RPPPTGGKGK/PGGPQK/PLAPRI PAVFTRGDSG*RSCPATTPLSA GSPSLPHRIPEPKPPHRIPEHKLH RACAHAPDPGSGGLRIFLTAVH HGKL
8161	38529	A	8216	3	645	FSVSHLLDLEEAGDMVAAQAD ENVGEAGRSL\LESPGLTSGTAT PQQDNDQLNSEEKKRKQRRN RTTFNSSLQA\LERVFERTH*T PSSLFSLFMPSCLLTILQVWF QNRRAKFRRNERAMLANKNAS LLKSYSGDVTAVEQPTDLQLCE TNACYSPLSLCPYSAMATYSA TCA\NNSPAQGINMANSIANLR LKAKEYSLQRNQVPTVN
8162	38530	A	8217	3	907	RVDDFVAVQLGRPIGSCFGGRA QLQEGVQKPQAMAVGNINELP ENILLELFTHVPARQLLLNCRL VCSLWRDLIDLVTWKRKCLR EGFITEDWDQPVANWKIFYFLR SLHRNLLHNPCAEEGFWSLD VNGGDEWKVEDLSRDQRKEFP NDQVKKYFVTSYYTCLKSQVV DLKAEGYWEELMDTTRPDIEV KDWFAARPDCGSKYQLCGHLS DAAQGPHTGFQPDPATIQKSD AKWREVSHTFSNYPGVRVYWF QHGGVDTHYWAGWYGPRVTN SSITIGPPLP*HPLSPHLLNPDW
8163	38531	B	8218	117	398	

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8164	38532	A	8219	I	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFPVQNCLS LARSDSREQGLVLVMESRNRE VPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAAEEC GDDEKIKVDDPLTRRTCNQASG SAPQQDYDKLKAFGGENSSKT GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
8165	38533	A	8220	I	1188	MPLDEDPSKLCRHNLCLECN IFQDKTSLATHFQQAADMSGQ KTCTICQMLLPNQ/CQRIHQHKS P*TCPECRAICR\SHCEVFYKCPI CPMTFKSAPSTHSHTYTQHPSIK IGESKIIYKCSMCNTVFTLQTLL YRHFDQHIEHQKRDVYISHVRK EHGKQMKKQPCCQRDKPFSSS HSLCWHNRIKHKVIRKVYTCSH CSDSRGTFTKQLMLEKHVQLT HGIKDPDLKE/TDRRHQ*GGNR NKRRPQGPQSQVEVERTGSGV QASQGAITQPKLEINVFKVHKC AVCGFTTENLLQFHEHIPQHKS DGSFYQCREHLFVAHKLKEPQP VSKQNGAGEDNQENKPSHED ESPNGAMSDRKCKVCAKTFET EAALKTHMQTHGMAFIKSKRM SSDEK

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8166	38534	A	8221	842	2687	KGECLPSALSLNNGNGRESLESL ESLSLEGFTRGRAGLRTCSPCL SLPAPPWAPVLPEPPRGAPPPAP RRPVPSTTQGLRSAGARRGTGR QLHLRPRC/ADPLGEASWAPES GSAPAILKVRIKTIKMSSGEIKR TVTRVLPEVDLDSGKKSSEQTA SVMASVTLLSSPASAAILS/SSP QGASPVHGHQCSFTC/SSSPLN RAPA/GAIIKAANAIIQQQTVVVP APSRANAKLVPKTVHLANINLL P/HGSATN/ISRQ*SMQQ/RSQPP KKVSRVQVVSSLQSSVVEAFN KVLSSVNPVPVYIPNLSPPTNAG ITLPTRGYKCLECGDSFAVEKS LTQHYDRQSMRIEAADTRGQK TCTICQMLLPNQCSYASHQRIH QHKSlyTCPECGAICRSVHFQT HVTKNCLHYMRRVGFRCVHCN VVYSDVAALQSHIQGSHCEVFY KCPICPMASNQNKEDTKSMNG KEKLEKSPSPVKKSVETKKVA SPGWTCWECDRLEFIQRDVYISH VRKEQGKQMKKHPCRHLCH NRIKHKGIRKVYACSHCPDSRR TFTKRLMLEKHVQLMHSLKDP DLKE/TDRCHQ*GGNRNKRHH QVPQSQAPLHCTQVKGTSASV QAKWSWGR
8167	38535	C	8222	1	438	
8168	38536	B	8223	98	463	
8169	38537	A	8224	1	2679	
8170	38538	A	8225	1	1209	AADTRGQKTCTICQMLLPNQCS YASHQRIHQHKSlyTCPECGAI CRSVHFQTHVTKNCLHYMRRV GFRCVHCNVVYSDVAALQSHI QGSHCEVFYKCPICPMASNQNK EDTKSMNGKEKLEKSPSPVK KSVETKKVASPGWTCWECDRLE FIQRDVYISHVRKEQGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRHPQGPQ SQVEVERTGSGVQASQGAITQ PKLEINVFKVHKCAVCGFTTEN LLQFHEHIPQHKSDFYQCRE HLFVAHKLKEPQPVSKQNGAG EDNQENKPSHEDESPNGAMS DRKCKVCAKTFETEAAALKTHM QTHGMAFIKSKRMSSDEK

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8171	38539	A	8226	58	391	FAKNDGFLHPCPEPL/PWSQT RTQSAAWA*GCNYLQPTGAAD LLAYFEFLGPEGKTGW*QGLDR DATGAPPSPTARQ/RVGKALGT AASLIPSFIPL*SKKMARETAAW SEW
8172	38540	A	8227	993	2235	NGGPHLWRLPTAHRACGERH GQAVACGGAVAEVALVGPAPT VGLRRGCPHSAPGGYACPVSSS TYSGLGQRCVFPHY\SPRAVPN LVPALGAPKP*MGPASGL*GD MLPAASVKRAPTAAGPWMLYP YSPARLDSAA/LQALSTKKVAS DSSKEQVANSRESSLSKEVND SPRAADKSPESQNLIDGTTKTS LKQLDSPRNISSENSIKGTPASP AGSTPPIPKVRIKTTKTSSGEIKR TVTRVLPEVDLDSGKKPSEQTV SVMASVTSLSSPASAATLSSPA RVPLQSAVVT\KQFPLQSPPLNR SQSSLWLLSSQCLL*RQQDPK SLI*SSLTTPR*KPRSYLLPLSRV PAAPSLKLANAIQQQTVMMMPA SSLANAKLVPK\MHLANLNLPLP QVAPATSELCPVSIKTQPQI
8173	38541	A	8228	I	3370	MIINTIITTTTITITIFIITIMSSSPIT ITNIITIIQH HHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRLPELTDSEDCQIYGDTE RKRRHSRKTCRWEYQVETKDT FLEELLFEPALRTGIQSKQGGPL LQLAANNYNLEPKQHFGSWFG TMKQLGETESIFSFAVEVCLTV YEIFGLPGIAPSKTKSFSNFLSCI TAIAALSTKKVASDSSKEQVAN SRESS
8174	38542	B	8229	I	438	
8175	38543	A	8230	38	597	VPCGPHCRLPSAWRTSPRLWN DTTSRKWKSGVAKSSCYNL*PS AGMRRKRF*LRAPSTLSGSALL *NRLMRSRRFCATSSCAS**CEQ RTLSFEGSLWRSTITSRPPPSA ARISSASAPTRRRCASESAACRR STGRAGPGPGGGKQQMKAAGR RGTAQPSSPHPLGIPTHPDTRG ASRQTGHL
8176	38544	C	8231	I	1062	

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8177	38545	A	8232	3	595	WSSAQPRASRAASRSSRLHSS RRLCLRCRAPRRPQLVASAKGR ASSARSRRGRSRSRR*RGRARS GGGMSPLAQRRLK*ASSSSGRG AAWSRASGAARGSGPLTGRR SAPLHSSSTVPCSPRYARPGPPR ATA/RGPTRATCLPSHRSTITSRP PPSLPVAVQPALPPGAAAPPSP PRAGGALAALGPGLTVGAGR
8178	38546	A	8233	2961	3005	SRLQQTIQADAFACAKGCWP GGM/DELEAETSSSLFLLAMQV WMCGRMEDIPCSRVGHIYRK YVPYKVPAGVSLAR/SKNLKR AEVWMDEYAEYIYQRRPEYRH LSAGDVAVQKKLRSSLNCKSF KWFMTKIAWDLPKFYPPVEPP AAAWGEIRNVGTGLCADTKHG ALGSPLRLEGCVRGRGEAAWN NMQVFTFTWREDIRPGDPQHT KKFCFDAISHTSPVTLYDCHSM KGNQLWKYRKDKTLYHPVSGS CMDCESDHRIFMNTCNPSLT QQWLFHTNSTVLEKFNRN*A ALLFDDESQFDSSNCQHSCYPR
8179	38547	A	8234	203	314	VPASSPALGSTLEFQLCEPINSG FCLNQID*GFGYL*ARFMSWPY WSLLSPFPLPLH
8180	38548	B	8235	1	1008	

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8181	38549	A	8236	2	1495	CLVVTSTDSIRFQIIPWAGTEMK QE/IIKLKDGSMEEHLKKPLEDY MALFPSVRILRTKKREGLIRTR MLGASVATGDVITFLDSHCAN VNWLPPLLDRIARNRKTIVCPM IDVIDHDDFRYETQAGDAMRG AFDWEMYKRIPIPELQKADP SDPFECQLVRDTLGDADSQQH DVSHLARCQADFLFPWSPVMA GGLFAVDRKWF/WELGGWAFS HGDPQQPWKESLFFPSSCTSPQ VESHWPAGPMPIPEQYCNWSP AVTCPVTAGRVCLGWGWR*RK *WGTDLLGARWKS KPF*SP*T NQDVKPNPHDLIEQFQRKEHFC TESAWLGCPQNGSWLLQSQRS HRERWNHGIFMTVISAVSCGLH GVVCGGRMEDIPCSRNLKRVA/ EVWMDEYAEYIYQRRPET/GHL SAGDVA VQKKLRSSLNCKSFK WFMTKIAWDLPKFYPPVEPPA AAWGEQKDMPLSQYTSKGAGI KSYLGSCTHHWGHRGRQKQG NILIAHQ
8182	38550	A	8237	1126	1603	TIMKITGRAGDAIMGADICH/N KDRKVRKEPKSQDIYLRLLVK LYRFLARRTNSTFNQVVLKRLF MSRTNRPPLSLSQMIQ\MKLP GRENKTAVVVGTITDDVRVQE VPKLVKALRVTSRARSILRA GGKILTFDQLALDSPKG*GTVL LSGPRKGR
8183	38551	A	8238	504	737	QLCWAGGKILTFDQLAVDSRK GCITVLLSGPLKGRKVYGHFGK APGTPHSHTKPYVHSGRKF RARG*RAS*GYKN
8184	38552	A	8239	1	360	MLGFALLPAPPGPLV/GSG*SP DDQIGRTGPALAPSLSRPSPAT LNSAGSEIHDRPRSGAPPTPCLR GSAQASTSACSPGANGPEPKPG LGTLRQQLEHIMATNRLDEAG WVACYPTDVR